

HITACHI

YK**No.040E**

SERVICE MANUAL

50PD9800TA(FW1)

The PDP panel made from FHP is used for this product.

Caution

Be sure to read this manual before servicing. To assure safety from fire, electric shock, injury, harmful radiation and materials, various measures are provided in this HITACHI display.

Be sure to read cautionary items described in the manual to maintain safety before servicing.

Service Warning

1. Since Panel Module and front Filter are made of glass, handling the broken Module and Filter shall be taken care sufficiently in order not to be injured.
2. Replacing work shall be started after the Panel Module and the AC/DC Power supply become sufficiently cool.
3. Special care shall be taken to the display area in order not to damage its surface.
4. The Panel Module shall not be touched with bare hand to protect its surface from stains.
5. It is recommended to use clean soft gloves during the replacing work in order to protect not only the display area of the Panel Module but also a serviceman himself.
6. The Chip Tube of Panel Module (located upper left of the back and surrounded by frame) and flexible cables connecting Panel glasses to drive circuit PWBs are very weak, so shall be taken care sufficiently not to break. If you break Chip Tube, the Panel doesn't display anything forever.

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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

Plasma Display



December 2006

CAUTION FOR SAFETY





Please read this page before repair the monitor.










This page explains to following items for keep the safety of set and prevent to accident during repair work.

- We explain by symbol at happen the damage or injury when took wrong repair.

 Warning	This symbol means "possible to die or heavy damage"
 Caution	This symbol means "possible to damage or something will break"

- We made the symbol as below, which are kind of following items.

	This symbol means "CAUTION"		This symbol means "MUST"
	This symbol means "POSSIBLE to ELECTRIC SHOCK"		This symbol means "DO NOT"

 WARNING	
<p>■ Should be follows to instructions.</p> <p> We indicates to cabinet, chassis and parts by label, which are special attention part. Please follow to note and [Safety Instructions] of User's Manual.</p>	<p>■ Should be kept same style of wiring or component.</p> <p> Monitor uses tubes or tapes, which made by insulator, and some components are keep distance from surface of PWB for safety.</p> <p> Internal leads kept from hot part or high voltage part by clamper or styling, so please return to original condition for prevent to electric shock or fire.</p>
<p>■ Prevent the electric shock.</p> <p> Please take care during working because monitor has high voltage part and power supply part.</p> <p> Possible to die if you tough to these place by miss take.</p> <p>Please disconnect power plug during overhaul, reassemble or change parts. You will die or take damage by electric shock if you touch to live part.</p>	<p>■ Should be done safety check after finished.</p> <p> Every part (removed screws, component and wiring) should be returned to previous condition.</p> <p> Check around repair position for make damage by miss take and measure the insulated impedance by meg-ohm meter. Confirm the value of impedance, that value is more than 4M ohm.</p> <p>It is reason for electric shock or fire if that value is less than 4M ohm.</p>
<p>■ Use recommended components.</p> <p> Please use to same characteristic component, which is same as previous for your safety and keep reliability especially marked by \triangle in parts list and circuit diagram.</p> <p>It is reason of electric shock or fire if you use non-recommended component.</p>	

PRECAUTIONS**How to clean the plasma screen panel of the monitor**

Before cleaning the monitor, turn off the monitor and disconnect the power plug from the power outlet.

To prevent scratching or damaging the plasma screen face, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. If it is not enough, then use a cloth with diluted neutral detergent. Do not use harsh or abrasive cleaners.

How to clean the cabinet of the monitor

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled a diluted neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.

Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.

1. Features**Large-screen, high-definition plasma display panel**

The 50-inch color plasma display panel, with a resolution of 1280 (H) x 1080 (V) pixels, creates a high-definition, large-screen(aspect ratio : 16:9) and low-profile flat display. Free from electromagnetic interferences from geomagnetic sources and ambient power lines, the panel produces high-quality display images free from color mis-convergence and display distortion.

High Performance Digital Processor

A wide range of input signals can be handed,including composite, component,and HDMI.High Definition Digital Processor creates the fine-textured image with dynamic contrast. In addition, it corresponds to a broad array of personal computer signals, from 640 x 400 and 640 x 480 VGA to 1280 x 1024 SXGA.(RGB Input)

Easy-to-use remote control and on screen display system

The remote control included eases the work of setting display controls. Further, the on-screen display system, displays the status of signal reception and display control settings in an easy-to-view fashion.

Power saving system

The power saver feature saves power consumption automatically when input signals are not available.

When connected to a VESA DPMS-compliant PC, the monitor cuts its power consumption while it is idle.

Connecting to an Audio Visual Device

- Two composite/S terminal*¹,two composite terminal*², two component terminal*² and two HDMI terminal have been added. A composite video output terminal is also provided as a monitoring output.

*¹ One composite/S terminal are on the front input. Composite terminal and S terminal should not be connected at the same time

*² Two composite terminal and two component terminal cannot be used at the same time.

- A wide range of devices other than personal computers can also be connected.

2. Specifications

Panel	Display dimensions	Approx. 50 inches (1106(H) x 626(V)mm, diagonal 1270mm)
	Resolution	1280(H) x 1080(V) pixels
Net dimensions		including Optional Stand : 1240(W) x 900(H) x 423(D)mm excluding Optional Stand : 1240(W) x 836(H) x 125(D)mm
Net weight		including Optional Stand : 46.5kg excluding Optional Stand : 40.7kg
Ambient conditions	Temperature	Operating : 5°C to 35°C, Storage : 0°C to 40°C
	Relative humidity	Operating : 20% to 80%, Storage : 20% to 90% (non-condensing)
Power supply		AC110 - 240V, 50/60Hz
Power consumption / at standby		470W / <1W
Audio output		speaker total 20W
(VIDEO input)		
Input terminals		AV1•2 : composite video input terminal (RCA) component video input terminal (RCA) L/R audio input terminal (RCA) AV3•4 : composite video input terminal (RCA) S video input terminal. L/R audio input terminal (RCA) HDMI1•2 : HDMI input terminal Audio input terminal (L/R audio input terminal (RCA))*
Input signals		Composite video : PAL, SECAM, NTSC3.58, NTSC4.43, PAL60 Component video : 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60 HDMI : VGA/60, 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60, 1080p/50, 1080p/60
Output Signal		OUTPUT (MONITOR) : composite video monitor-output terminal (RCA) OUTPUT (MONITOR) : L/R audio monitor-output terminal (RCA) OUTPUT (HEADPHONE) : L/R audio monitor-output terminal (Mini-pin) OUTPUT (SUB-WOOFER) : Woofer output terminal (RCA)
(RF input)		
Input terminal / Receiving range		ANT : 75Ω Unbalanced / 44~870MHz
RF Video System		PAL B, G, H / I / D, K SECAM B, G / D, K / K1 NTSC-M
(RGB input)		
Input terminals		Analog RGB input terminal (D-sub 15-pin) Audio input terminal (L/R audio input terminal (RCA))*
Input signals		0.7Vp-p, analog RGB (Recommended Signal)
Sync signals		H/V separate, TTL level [2KΩ]

•The unit takes at least 30 minutes to attain the status of optimal picture quality.

*This analog audio input terminal can be used for PC (RGB) or HDMI1/2 only.

3. Service points

● Lead free solder

This product uses lead free solder (unleaded) to help preserve the environment. Please read these instructions before attempting any soldering work.

Caution: Always wear safety glasses to prevent fumes or molten solder from getting into the eyes. Lead free solder can splatter at high temperatures (600°C).

■ Lead free solder indicator

Printed circuit boards using lead free solder are engraved with an "F."

■ Properties of lead free solder

The melting point of lead free solder is 40-50°C higher than leaded solder.

■ Servicing solder

Solder with an alloy composition of Sn-3.0Ag-0.5Cu or Sn-0.7Cu is recommended.

Although servicing with leaded solder is possible, there are a few precautions that have to be taken. (Not taking these precautions may cause the solder to not harden properly, and lead to consequent malfunctions.)

Precautions when using leaded solder

- Remove all lead free solder from soldered joints when replacing components.
- If leaded solder should be added to existing lead free joints, mix in the leaded solder thoroughly after the lead free solder has been completely melted (do not apply the soldering iron without solder).

■ Servicing soldering iron

A soldering iron with a temperature setting capability (temperature control function) is recommended.

The melting point of lead free solder is higher than leaded solder. Use a soldering iron that maintains a high stable temperature (large heat capacity), and that allows temperature adjustment according to the part being serviced, to avoid poor servicing performance.

Recommended soldering iron:

- Soldering iron with temperature control function (temperature range: 320-450°C)

Recommended temperature range per part:

Part	Soldering iron temperature
Mounting (chips) on mounted PCB	320°C±30°C
Mounting (chips) on empty PCB	380°C±30°C
Chassis, metallic shield, etc.	420°C±30°C

■ Readjustment Power supply voltage

When a PANEL or a Power Unit is exchanged, power supply voltage needs to be adjusted. Please adjust to make the values of Vs and Va, as should on the label currently stuck on the panel back upper parts. Adjustment is performed by VR in the power supply unit. Please refer to the procedures of "Vs" and "Va" adjustments on 21page.

The PWB assembly which has used lead free solder

Filter PWB (Filter PWB)
 Sub PWB (Sub PWB)
 MAIN PWB (Main PWB)
 Control PWB (Control PWB, LED PWB)

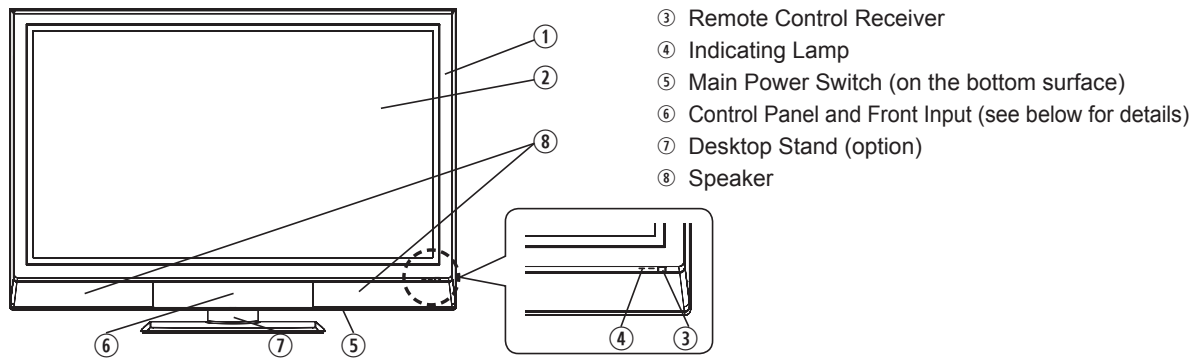
4. Component names

[Main unit]

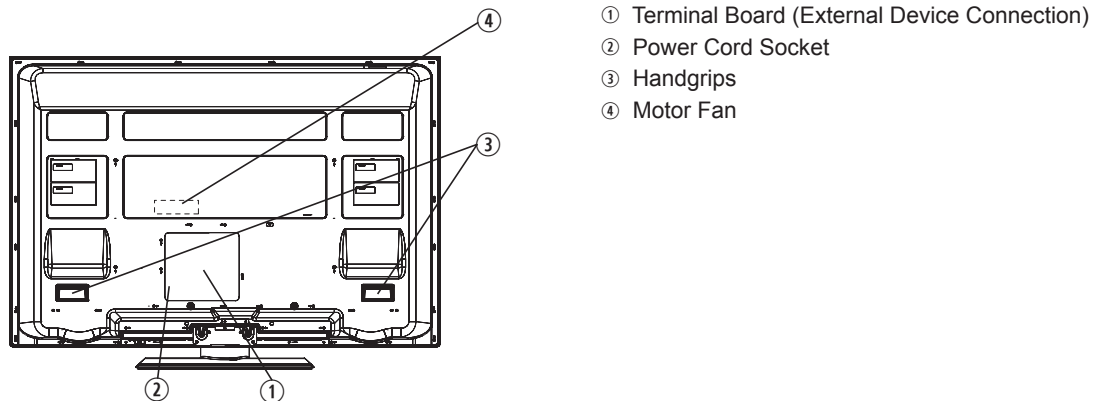
COMPONENT NAMES

Main Unit

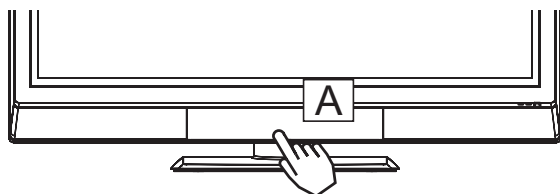
Front Panel



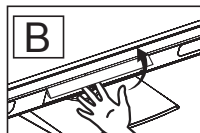
Rear Panel



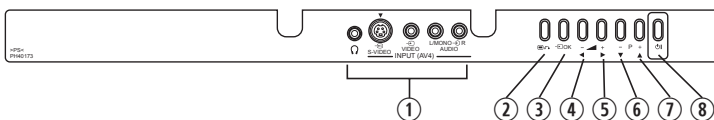
Control Panel (including front input)

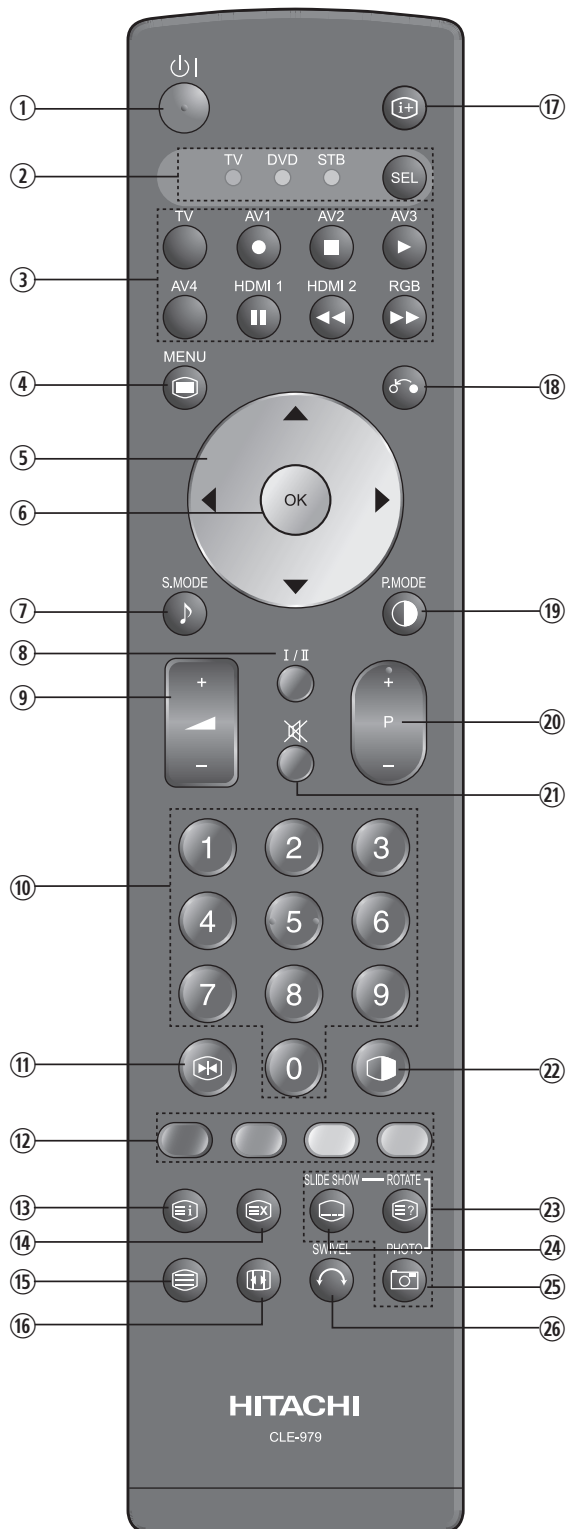


Push here to open the door.



- A** Push the bottom center of the front door to unlock.
- B** Lift it up from the underside of the door.



[Remote control]

- ① **Sub Power**
- ② **Function Select (TV/DVD/STB)**
Press this button to select function mode indicating LED lamp.
Normally, select "TV".
- ③ **Input Select/DVD Control**
Press this button to change input mode.
In addition, you can use these buttons while operating the selected brand of DVD player.
- ④ **Menu**
- ⑤ **Cursor**
- ⑥ **OK**
- ⑦ **Sound Mode**
Sound mode can be changed each time pressed in the following sequence. Movie→Music→Speech→Favorite
- ⑧ **CH/II**
This is exclusively for TV audio A2/NICAM mode.
- ⑨ **Volume Up/Down**
- ⑩ **Program Select [Page Select]**
Press these buttons to select a TV program directly. For 2 or 3 digits channel selection, press (Ⓢ) button in advance.
- ⑪ **Freeze [Hold]**
Press this button to change the picture to freeze mode. Press it again to return to normal picture. (Also, it holds the page in teletext mode.)
- ⑫ **[Color (Red, Green, Yellow, Blue)]**
- ⑬ **[Index]**
- ⑭ **Time [Cancel]**
Press this button to display the time when receiving a TV program.
The time is not displayed if the signal received does not have any time information.
- ⑮ **TV/Text [TV⇌Text]**
This switches between the TV mode and the Teletext mode.
- ⑯ **Zoom [Text⇌TV+Text]**
Press this button to change picture size.
- ⑰ **Recall**
Press this button to show the input signal status.
- ⑱ **Return**
You can use this to return to the previous menu.
- ⑲ **Picture Mode**
Picture mode can be changed each time pressed in the following sequence. Dynamic→Natural→Cinema
- ⑳ **Channel Up/Down [Page Select]**
- ㉑ **Mute**
- ㉒ **Not Available**
- ㉓ **[Reveal]**
- ㉔ **[Subtitle]**
- ㉕ **Not Available**
- ㉖ **Not Available**

5. New adoption technology

[System control micom I001(M30627)]

• Pin function table

No.	Pin Name	I/O	FUNCTION
1	VREF (+5.0V)	I	5V
2	+5.0V	I	5V
3	M_SW1	I/O	Main SW1
4	M_SW2	I/O	Main SW2
5	S_SW1	I/O	Sub SW1
6	BL_CONT	I/O	LCD Backlight control (DA-out)
7	G_HB	I/O	GENESIS HEART BEAT
8	G_XRST	I/O	GENESIS XRST
9	G_BUSY	I/O	GENESIS BUSY
10	EXT_CONT_1	I/O	NC
11	BL_INST	I/O	Black Insert On/Off for 32V LCD (37V=Low)
12	BL_BLINK	I/O	Backlight Blink On/Off for 32V LCD (37V=Low)
13	GND	I	GND
14	CNVSS(FLASH)	I	CNVSS(FLASH)
15	FC6_DATA_DIR	I/O	FC6 DATA I/O control
16	S_SW2	I/O	Sub FE SW2
17	RESET	I	Reset
18	16MHz oscillate	O	OSC-OUT
19	GND	I	GND
20	16MHz oscillate	I	OSC-IN
21	+5.0V	I	5V
22	NMI(+5.0V)	I	5V PULL UP
23	RMCON	I/O	RX remote controller signal
24	FC6_VSYNC	I/O	FC6 V.SYNC Input
25	V.FREQ_3	I/O	V.Frequency
26	SCV.SYNC	I/O	SUB_Y.SYNC (composite)
27	IRQ(PM-IRQ)	I/O	PDP control
28	MCV.SYNC	I/O	MAIN_Y.SYNC (composite)
29	POWER_LED	I/O	L : Lighting (Power save)
30	EXT_CONT_2	I/O	NC
31	CEC_OUT	I/O	CEC OUT(CEC2)
32	H.FREQ_3	I/O	H.Frequency
33	PDWN	I/O	Panel LVDS
34	RXD2	I/O	GENESIS communication
35	TXD2	I/O	GENESIS communication
36	TXD1(RS232C/FLASH)	I/O	RS-232C communication / FLASH write
37		I	5V
38	RXD1(RS232C/FLASH)	I/O	RS-232C communication / FLASH write
39		I	GND
40	SCLK(FLASH)	I/O	FLASH write
41	BUSY(FLASH)	I/O	FLASH write
42	TXD0(DTT)	I/O	DTT
43	RXD0(DTT)	I/O	DTT
44	SDA4(panel)	I/O	PDP communication (I2C bus)
45	SCL4(panel)	I/O	PDP communication (I2C bus)
46	M_ENABLE	I/O	Media Enable
47	M_SCLK	I/O	Media Clock
48	M_SDA	I/O	Media Data
49	M_WAKEUP	I/O	Media Wakeup
50	PDPGO(PM_ON)	I/O	PDP control / LCD Panel 12V

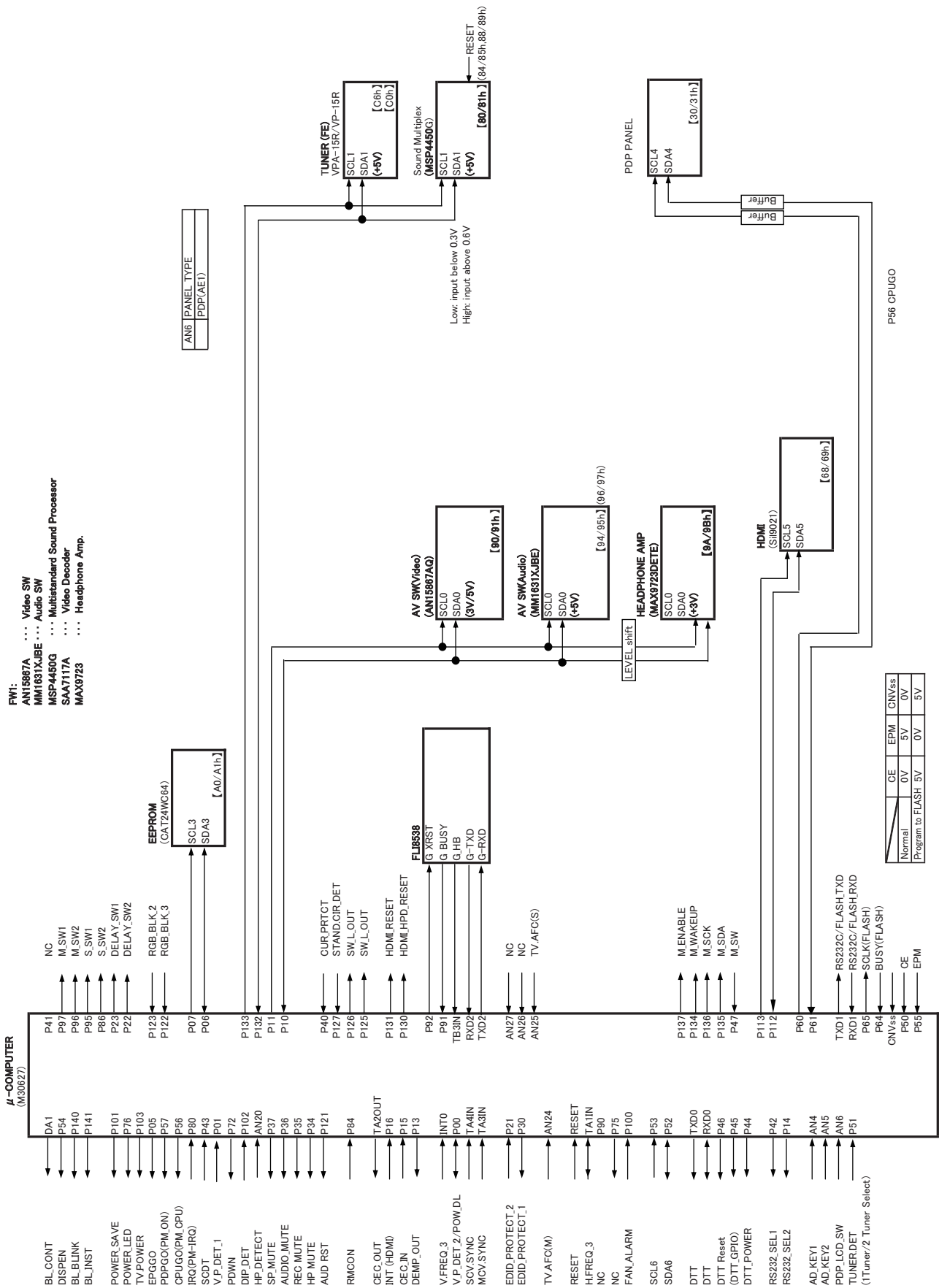
50PD9800TA (FW1)

No.	Pin Name	I/O	FUNCTION
51	CPUGO(PM_CPU)	I/O	PDP control / Inverter (V)
52	EPM (FLASH)	I/O	FLASH write
53	DISPEN	I/O	DISPEN / Backlight on
54	SCL1	I/O	I2C(to Sub PWB) FE/MSP4450G or MSPxxxxG
55	SDA1	I/O	I2C(to Sub PWB) FE/MSP4450G or MSPxxxxG
56	HDMI-RESET	I/O	HDMI-Reset
57	HDMI-HPD_RESET	I/O	Hot Plug Detect Reset
58	SCL6	I/O	I2C(to Sensor PWB) (AD7414)
59	SDA6	I/O	I2C(to Sensor PWB) (AD7414)
60	TUNER.DET_1	I/O	TUNER setting (Tuner / 2 Tuner)
61	CE (FLASH)	I/O	FLASH write
62	STAND.CIR_DET	I/O	Stand Detect
63	SW_L_OUT	I/O	Swivel L out
64	SW_R_OUT	I/O	Swivel R out
65	M_SW	I/O	B.M. distinction
66	IRQ_DTT/DTT_RESET	I/O	DTT IRQ/DTT_RESET(for AUS-DTT)
67	DTT_GPIO1	I/O	DTT_GPIO1 (for AUS-DTT)
68	DTT_POWER	I/O	DTT POWER
69	SCDT	I/O	HDMI Power Save (return)
70	RS232_SEL1	I/O	RS-232C select1 (Main MPU / GNSS)
71	NC	I/O	NC
72	CUR_PRTCT	I/O	Detect Power Swivel overload
73	SP_MUTE	I/O	SP relay
74	AUDIO_MUTE	I/O	Audio MUTE
75	REC_MUTE	I/O	Audio REC_MUTE
76	HP_MUTE	I/O	Head Phone MUTE
77	SCL5	I/O	I2C(Sil9021)
78	SDA5	I/O	I2C(Sil9021)
79	SYNC_SW2	I/O	sync SW
80	SYNC_SW1	I/O	PC/BM sync SW
81	RGB_BLK_2	I/O	NC
82	RGB_BLK_3	I/O	NC
83	AUDIO_RESET	I/O	Audio RESET
84	IR_SW	I/O	IR Through SW
85	+5.0V	I	-
86	EDID_PROTECT_1	I/O	Memory Protect
87	GND	I	GND
88	WSS_1	I/O	NC
89	WSS_2	I/O	NC
90	TV.AFC(S) / WSS_3	I/O	Sub tuner control (AFC)
91	TV.AFC(M)	I/O	Main tuner control (AFC)
92	DEALY_SW1	I/O	Audio Delay SW1(Lipsync)
93	DEALY_SW2	I/O	Audio Dealy SW2(Lipsync)
94	EDID_PROTECT_2	I/O	Memory Protect
95	HP_DETECT	I/O	HEAD PHONE DETECT
96	VCD_CE	I/O	for SAA7117A CE
97	INT_HDMI	I/O	INT(HDMI)
98	CEC_IN	I/O	CEC IN(CEC1)
99	RS232_SEL2	I/O	RS-232C SEL2 (DTT / RS-232C SEL1)
100	DEMP_OUT	I/O	HDMI demphasis control out

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No.	Pin Name	I/O	FUNCTION
101	FC6_XRST	I/O	FC6 XRST
102	SCL0	I/O	I2C (for Main PWB & Sub PWB)(SAA7117A/AN15867A/MM1631/MAX9723DETE)
103	SDA0	I/O	I2C (for Main PWB & Sub PWB)(SAA7117A/AN15867A/MM1631/MAX9723DETE)
104	SCL3(EEPROM)	I/O	I2C(EEPROM)
105	SDA3(EEPROM)	I/O	I2C(EEPROM)
106	EPGGO	I/O	EPGGO
107	FC6_EXTLD	I/O	FC6 EXTLD
108	FC6_CLK	I/O	FC6 CLK
109	FC6_ENABLE	I/O	FC6 ENABLE
110	V_P_DET_1	I/O	V_DET_1(Power Save return)
111	V_P_DET_2/POW_DL	I/O	V_DET_2(Power Save return)
112	FC6_DATA7	I/O	FC6 DATA7
113	FC6_DATA6	I/O	FC6 DATA6
114	FC6_DATA5	I/O	FC6 DATA5
115	FC6_DATA4	I/O	FC6 DATA4
116	FC6_DATA3	I/O	FC6 DATA3
117	FC6_DATA2	I/O	FC6 DATA2
118	FC6_DATA1	I/O	FC6 DATA1
119	FC6_DATA0	I/O	FC6 DATA0
120	FC6_PBLK	I/O	FC6 PBLK
121	PDP_LCD_SW	I/O	PDP(A4/A4SF/50),LCD(32/37) detect
122	AD_KEY2	I/O	AD KEY2*
123	AD_KEY1	I/O	AD KEY1(Power)
124	TV.POWER	I/O	H:Power ON, L:(Standby, Power Save)
125	DIP.DET	I/O	DIP DET
126	POWER_SAVE	I/O	L:Lighting (standby, power save), H:Lighting off
127	GND	I	GND
128	FAN_ALARM *1	I/O	FAN ALARM

● Block diagram



6. Adjustment

• How to get to Adjustment mode

Using the front buttons with the set turned off (standby) can activate it.

Press the SUB-POWER(⏻) button, and MENU button at the same time, and hold for more than 5 seconds.

The set turns on in adjustment mode with OSD.

• Changing data and Selecting Adjustment code

When the set is in adjustment mode, the cursor ◀, ▶, ▲, ▼ and OK buttons of the remote control or front buttons may be used as the adjustment keys.

▲, ▼ buttons are used for selecting adjustment code.

◀, ▶ buttons are used for changing data values.

OK button is used for to fix data.

After finishing the necessary adjustment press MENU button. Adjustment mode is released and the set returns to normal condition.

• Memory Initialize operation

The execution of this function returns the adjustment codes to the preset values, therefore, adjustment data will be lost.

Procedure

- (1) Enter Adjustment Mode.
- (2) Select MEMORY INIT adjustment code (No.598) and change the data value from 0 to 1.
- (3) Activate MEMORY INIT by pressing OK button.
- (4) Select No.407 and change data value from 1 to 0.
- (5) Check that the receiving channel goes to P1. Unit is set to preset values.

• How to check method of the use accumulation time for panel.

Select No. 594 of Service Adjustment Menu.

• Do for the following when flicker is anxious.

This phenomenon depends on a contrast improvement function of a panel.

In the following condition, there is the case that this phenomenon occurs.

But outbreak frequency is very low.

- A still image of a single raster
- A signal of the video specification gradation input

ADJ Items	ADJ No.	Init. Value	Max. value
PC mode	132	0	1
Dynamic mode	129	0	1
Normal mode	130	0	1
Cinema mode	131	0	1

- When changed a main PWB for a service board, refer to P22 (Instructions in software renewal) at work.

● Service adjustment items by I²C-bus control (MAIN Part)

Adj. No.	Function	Max. Value	Init. Value	Device
ADJ. Items		Mode		
0	SUB_CONTRAST (AV1) DCON[7:0]	Sub Composite mode	254	68 SAA7117A
1	SUB_CONTRAST (AV2) DCON[7:0]	Sub Composite mode	254	68 SAA7117A
2	SUB_CONTRAST (AV3) DCON[7:0]	Sub Composite mode	254	68 SAA7117A
3	SUB_CONTRAST (AV4) DCON[7:0]	Sub Composite mode	254	68 SAA7117A
4	SUB_CONTRAST (AV5) DCON[7:0]	Sub Composite mode for EURO	254	68 SAA7117A
5	SUB_CONTRAST M (4.5) DCON[7:0]	Sub	254	68 SAA7117A
6	SUB_CONTRAST B/G (5.5) DCON[7:0]	Sub	254	68 SAA7117A
7	SUB_CONTRAST D/K (6.5) DCON[7:0]	Sub	254	68 SAA7117A
8	SUB_CONTRAST I (6.0) DCON[7:0]	Sub	254	68 SAA7117A
9	SUB_CONTRAST L (6.5) DCON[7:0]	Sub	254	68 SAA7117A
10	SUB_CONTRAST L' (6.5) DCON[7:0]	Sub	254	68 SAA7117A
11	Sub Color M (4.5) DSAT[7:0]	Sub	254	60 SAA7117A
12	Sub Color B/G (5.5) DSAT[7:0]	Sub	254	62 SAA7117A
13	Sub Color D/K (6.5) DSAT[7:0]	Sub	254	62 SAA7117A
14	Sub Color I (6.0) DSAT[7:0]	Sub	254	62 SAA7117A
15	Sub Color L (6.5) DSAT[7:0]	Sub	254	62 SAA7117A
16	Sub Color L' (6.5) DSAT[7:0]	Sub	254	62 SAA7117A
17	Sub Color (VIDEO) DSAT[7:0]	Sub	254	60 SAA7117A
18	TINT (RF) PAL/N-PAL/M-PAL/SECAM HUEC[7:0]	Sub	254	0 SAA7117A
19	TINT (RF) NTSC3.58/NTSC4.43 HUEC[7:0]	Sub	254	253 SAA7117A
20	TINT (VIDEO) PAL/N-PAL/M-PAL/SECAM HUEC[7:0]	Sub	254	0 SAA7117A
21	TINT (VIDEO) NTSC3.58/NTSC4.43 HUEC[7:0]	Sub	254	253 SAA7117A
22	Sharpness Gain/f0(RF/NR) LUF[3:0]	Sub	15	0 SAA7117A
23	Sharpness Gain/f0(RF) M LUF[3:0]	Sub	15	5 SAA7117A
24	Sharpness Gain/f0(RF) BG/DK/I LUF[3:0]	Sub	15	5 SAA7117A
25	Sharpness Gain/f0(RF) L LUF[3:0]	Sub	15	5 SAA7117A
26	Sharpness Gain/f0(RF) L' LUF[3:0]	Sub	15	5 SAA7117A
27	Sharpness Gain/f0(VIDEO) PAL LUF[3:0]	Sub	15	4 SAA7117A
28	Sharpness Gain/f0(VIDEO) NTSC3.58 LUF[3:0]	Sub	15	4 SAA7117A
29	Sharpness Gain/f0(VIDEO) SECAM,B/W LUF[3:0]	Sub	15	11 SAA7117A
30	Sharpness Gain/f0(VIDEO) NTSC4.43 LUF[3:0]	Sub	15	4 SAA7117A
31	Sharpness Gain/f0(VIDEO) N-PAL LUF[3:0]	Sub	15	4 SAA7117A
32	Sharpness Gain/f0(VIDEO) M-PAL LUF[3:0]	Sub	15	4 SAA7117A
33	Sharpness Gain/f0(S.VIDEO) LUF[3:0]	Sub	15	0 SAA7117A
34	IGP0 Output Control polarity IGP0P	Sub	1	0 SAA7117A
35	BPF Q (4.43MHz:NTSC4.43/PAL) (for AUTO[1:0]=11) LUBW	Sub	1	0 SAA7117A
36	BPF Q (4.43MHz:NTSC4.43/PAL) (for AUTO[1:0]=11) LCBW[2:0]	Sub	7	6 SAA7117A
37	IGP1 Output Control polarity IGP1P	Sub	1	0 SAA7117A
38	BPF Q (3.58MHz:NTSC3.58/M-PAL/N-PAL) (for AUTO[1:0]=11) LUBW	Sub	1	0 SAA7117A
39	BPF Q (3.58MHz:NTSC3.58/M-PAL/N-PAL) (for AUTO[1:0]=11) LCBW[2:0]	Sub	7	6 SAA7117A
40	I-port signal definitions IGP0 IDG0[2:0]	Sub	7	0 SAA7117A
41	I-port signal definitions IGP1 IDG1[2:0]	Sub	7	0 SAA7117A
42	SECAM D-Trap (for AUTO[1:0]=11) LUBW	Sub	1	0 SAA7117A
43	SECAM D-Trap (for AUTO[1:0]=11) LCBW[2:0]	Sub	7	6 SAA7117A
44	Y_DL (4.5MHz) YDEL[2:0]	Sub	7	7 SAA7117A
45	Y_DL (5.5MHz PAL/NTSC) YDEL[2:0]	Sub	7	7 SAA7117A
46	Y_DL (5.5MHz SECAM) YDEL[2:0]	Sub	7	6 SAA7117A
47	Y_DL (6.0PAL/NTSC) YDEL[2:0]	Sub	7	7 SAA7117A
48	Y_DL (6.0SECAM) YDEL[2:0]	Sub	7	6 SAA7117A
49	Y_DL (6.5PAL/NTSC) YDEL[2:0]	Sub	7	7 SAA7117A
50	Y_DL (6.5SECAM) YDEL[2:0]	Sub	7	6 SAA7117A
51	Y_DL (L) YDEL[2:0]	Sub	7	7 SAA7117A
52	Y_DL (L') YDEL[2:0]	Sub	7	7 SAA7117A
53	Y_DL (VIDEO PAL/NTSC4.43) YDEL[2:0]	Sub	7	7 SAA7117A
54	Y_DL (VIDEO SECAM) YDEL[2:0]	Sub	7	7 SAA7117A
55	Y_DL (VIDEO NTSC3.58) YDEL[2:0]	Sub	7	7 SAA7117A
56	Cb offset OFFU[1:0]	Sub	3	0 SAA7117A
57	Cr offset OFFV[1:0]	Sub	3	0 SAA7117A
58	AFC_GAIN (AV00) HTC[1:0]	Sub	3	2 SAA7117A
59	AFC_GAIN (AV00) ATVT[1:0]	Sub	3	2 SAA7117A
60	AFC_GAIN (AV1-5) HTC[1:0]	Sub	3	2 SAA7117A
61	AFC_GAIN (AV1-5) ATVT[1:0]	Sub	3	2 SAA7117A
62	AFC_GAIN (RF) HTC[1:0]	Sub	3	2 SAA7117A
63	AFC_GAIN (RF) ATVT[1:0]	Sub	3	2 SAA7117A
64	P/N ID QTHR[3:0]	Sub	15	0 SAA7117A
65	S_ID STHR[3:0]	Sub	15	7 SAA7117A
66	HS Phase IRHP	Sub	1	0 SAA7117A
67	AUTO mode AUTO[1:0]	Sub	3	2 SAA7117A
68	ANALOG_GAIN 1 AGA1[2]&AGA1[1:0]	Sub	7	2 SAA7117A
69	ANALOG_GAIN 2 AGA2[2]&AGA2[1:0] *serves both AGA3 and AGA4	Sub	7	2 SAA7117A
70	DIGITAL_GAIN 1 DGA1[5:0]	Sub	63	45 SAA7117A
71	DIGITAL_GAIN 2 DGA2[5:0] *serves both DGA3 and DGA4	Sub	63	45 SAA7117A
72	VS_Phase IRVP	Sub	1	1 SAA7117A
73	LLC Output Enable LLCE	Sub	1	1 SAA7117A
74	LLC2_LLC54 Output Enable LLC2E	Sub	1	1 SAA7117A
75	LLC2_LLC54 Select Line Locked Clock SLLC2	Sub	1	0 SAA7117A
76	XTOUT Output Control XTOUTE	Sub	1	0 SAA7117A
77	RTS1 Output Control polarity RTP1	Sub	1	0 SAA7117A

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Adj. No.	Function	Max. Value	Init. Value	Device
ADJ. Items	Mode			
78 RTS0 Output Control polarity RTP0	Sub	1	0	SAA7117A
79 RTS1 Output Control RTSE1[3:0]	Sub	15	1	SAA7117A
80 RTS0 Output Control RTSE0[3:0]	Sub	15	15	SAA7117A
81 Limit Level Image Port ILLV[1:0]	Sub	3	0	SAA7117A
82 Dynamic Back Light 0:OFF, 1:ON (LCD only)	For Dynamic mode	1	1	-
83 Dynamic Back Light 0:OFF, 1:ON (LCD only)	For Natural mode	1	1	-
84 Dynamic Back Light 0:OFF, 1:ON (LCD only)	For Cinema mode	1	1	-
85 APL Enhancer 0:OFF, 1:ON	For Dynamic mode	1	1	-
86 HDMI PC Function 0:OFF, 1:ON (corresponds to items)		1	0	-
87 Video2-RGB MODE ON	For ASIA	1	0	-
88 Automatic Chrominance Gain ON/OFF ACGC		1	0	SAA7117A
89 Chrominance gain value (NTSC) CGAIN[6:0]		127	46	SAA7117A
90 Chrominance gain value (PAL) CGAIN[6:0]		127	51	SAA7117A
91 X-port XRH output selection XRHS[1:0]		3	0	SAA7117A
92 X-port XRV output selection XRVs[1:0]		3	0	SAA7117A
93 *move to later 216				
94 Standard detection search loop latency LATY[2:0]	Sub	7	5	SAA7117A
95 CCFMD function	RF/VIDEO	1	0	PDP
96 CCFMD function	DSUB-RGB	1	0	PDP
97 Sharpness Gain/f0(RF/NR) SECAM,B/W LUFJ[3:0]	Sub	15	12	SAA7117A
98 Sharpness Gain/f0(RF) SECAM,B/W LUFJ[3:0]	Sub	15	11	SAA7117A
99 CHINA HD-STANDARD 0:Not Available, 1:Available	For A4SF Panel	1	1	-
100 Dispersion Time of Sustain current (55 only) 0:2 Times, 1:4 times	For Dynamic mode	1	0	PDP
101 Dispersion Time of Sustain current (55 only) 0:2 Times, 1:4 times	For Natural mode	1	1	PDP
102 Dispersion Time of Sustain current (55 only) 0:2 Times, 1:4 times	For Cinema mode	1	1	PDP
103 Dispersion Time of Sustain current (55 only) 0:2 Times, 1:4 times	For PC mode	1	1	PDP
104 NTSC/EBU(CCFORM)	SD(YCbCr)/Scart-RGB	1	0	PDP
105 NTSC/EBU(CCFORM)	HD(YPbPr)	1	0	PDP
106 NTSC/EBU(CCFORM)	DSUB-RGB	1	0	PDP
107 γ-select(0:1.0, 1:2.2, 2:2.8)	RF/VIDEO	2	1	PDP
108 γ-select(0:1.0, 1:2.2, 2:2.8)	DSUB-RGB	2	1	PDP
109 Color Temp. Correction		3	2	PDP
110 Select for APC function		1	0	PDP
111 C3OTON(COOL)	1:ON, 0:OFF	1	1	PDP
112 C3OTLV(COOL)	1:Standard, 0:Weak	1	0	PDP
113 C3OTON(NORMAL/WARM)	1:ON, 0:OFF	1	1	PDP
114 C3OTLV(NORMAL/WARM)	1:Standard, 0:Weak	1	0	PDP
115 SRV16(INTFPC)	1:ON, 0:OFF	1	0	PDP
116 GAM RS	0:old map 1:new map(range)	1	1	PDP
117 N-APSON	0:OFF 1:ON	1	1	PDP
118 B-APSON	0:OFF 1:ON	1	0	PDP
119 C3TBL_SEL_B		1	0	PDP
120 C3TBL_SEL_G		1	0	PDP
121 C3OTLEV_SEL_B		3	0	PDP
122 C3OTLEV_SEL_G		3	0	PDP
123 C3OTLEV_SEL_R		3	0	PDP
124 WTI-VW	1:ON, 0:OFF	1	0	PDP
125 WTI-WAVE	0:AUTO1, 1:AUTO2, 2:fixed	2	0	PDP
126 Reserved		-	-	-
127 Reserved		-	-	-
128 Reserved		-	-	-
129 SFDOFF 0:ON, 1:OFF	Dynamic mode	1	0	PDP
130 SFDOFF 0:ON, 1:OFF	Normal mode	1	0	PDP
131 SFDOFF 0:ON, 1:OFF	Cinema mode	1	0	PDP
132 SFDOFF 0:ON, 1:OFF	PC mode	1	0	PDP
133 Vak OffSet (Vak_OFS)		255	0	PDP
134 Vak to Vra Parameter(VaktoVra)		255	1	PDP
135 Vsk to Vrs Parameter(VsktoVrs)		255	1	PDP
136 VFB WAIT CounTer(CT_VWAIT)		255	60	PDP
137 VFB CORRection Counter(CT_VCORR)		255	15	PDP
138 Vsk OFFSet(Vsk_OFS)		255	0	PDP
139 Vsk DETect upper 2 bit(Vsk_DET)		-	-	PDP
140 Vsk DETect lower 8 bit(Vsk_DET)		-	-	PDP
141 Vsk detect INIT. upper 2 bit (Vsk_INIT)		-	-	PDP
142 Vsk detect INIT. lower 8 bit (Vsk_INIT)		-	-	PDP
143 Vak DETect upper 2 bit (Vak_DET)		-	-	PDP
144 Vak DETect lower 8 bit (Vak_DET)		-	-	PDP
145 DeLTa Vrs value(DLT_Vrs)		-	-	PDP
146 DeLTa Vra value(DLT_Vra)		-	-	PDP
147 Vak detect INIT. Upper 2 bit (Vak_INIT)		-	-	PDP
148 Vak detect INIT. Lower 8 bit(Vak_INIT)		-	-	PDP
149 TCASE (ACCC Operation Level)	0014H	-	-	PDP
150 ADM1(Temperature detection value)	0015H	-	-	PDP
151 ADM2(Temperature detection value)	0016H	-	-	PDP
152 ADM3(Temperature detection value)	0017H	-	-	PDP
153 ADM4(Temperature detection value)	0018H	-	-	PDP
154 ADM5(Temperature detection value)	0019H	-	-	PDP
155 ADM6(Temperature detection value)	001AH	-	-	PDP

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Adj. No.	Function	Max. Value	Init. Value	Device
ADJ. Items	Mode			
156	ADM7(Temperature detection value)	001BH	-	PDP
157	ADM8(Temperature detection value)	001CH	-	PDP
158	ADM9(Temperature detection value) only for A4SF Pane	005EH	-	PDP
159	ADM10(Temperature detection value) only for A4SF Pane	005FH	-	PDP
160	MAXAVE (Maximum mean value of ADM)	001EH	-	PDP
161	Iak (Maximum current of Address)	000DH	-	PDP
162	USER Vrs(Uvrs)	-	-	PDP
163	USER Vra(Uvra)	-	-	PDP
164	Uvrs/Uvra RECALL(RCLVr)	1	0	PDP
165	SWIVEL DEMO MODE ON	50	0	-
166	Black insert function 0:Not available, 1:Available	For LCD Dynamic mode or Day mode	1	0 M30627
167	Dynamic Backlight function 0:No, 1:Yes	For LCD	1	1 M30627
168	DVI(HDMI) Range Scaling 0:Limited Range(Normal), 1:Full Range	For DVI-Video Timing	1	0 HDMI
169	DTT LOG ENABLE	For DTT	1	0 -
170	AUTO FM/AM (D11-D8)	-	15	2 MSP4450G
171	AUTO FM/AM (D 7-D0)	-	254	189 MSP4450G
172	A2_THRESHOLD (D11-D8)	-	15	0 MSP4450G
173	A2_THRESHOLD (D 7-D0)	-	254	112 MSP4450G
174	PRE_AM	Except 4.5MHz (Except Dual/Stereo mode)	254	17 MSP4450G
175	VOL_SCART1 (D15-D8)	-	254	115 MSP4450G
176	VOL_SCART1 (D 7-D5)	-	7	0 MSP4450G
177	PRE_SCART	-	254	25 MSP4450G
178	PRE_FM	4.5MHz(JAPAN)	254	34 MSP4450G
179	PRE_FM	4.5MHz(Except BTSC-SAP mode)	254	32 MSP4450G
180	PRE_FM	4.5MHz(BTSC-SAP)	254	60 MSP4450G
181	PRE_FM	4.5MHz(Except KOREA-Dual/Stereo mode)	254	36 MSP4450G
182	PRE_FM	4.5MHz(KOREA-Dual/Stereo)	254	34 MSP4450G
183	PRE_FM	Except 4.5MHz(Except Dual/Stereo mode)	254	17 MSP4450G
184	PRE_FM	Except 4.5MHz(Dual/Stereo mode)	254	27 MSP4450G
185	PRE_NICAM	-	254	57 MSP4450G
186	CM_THRESHOLD (D15-D8)	Sync=OK	254	0 MSP4450G
187	CM_THRESHOLD (D7-D0)	Sync=OK	254	200 MSP4450G
188	Sound Multiplex special operation (0:Normal 1:Korea)	-	1	0 M30627
189	Set Stereo judgment level at turn on mode of Sound Multiple	For Korea special version	127	18 M30627
190	Set Dual judgment level at turn on mode of Sound Multiple	For Korea special version	128	18 M30627
191	Set Stereo judgment level at normal mode of Sound Multiple	For Korea special version	127	18 M30627
192	Set Dual judgment level at normal mode of Sound Multiplex	For Korea special version	128	18 M30627
193	Set judgment time for jugd to Multiplex at turn on mode	For Korea special version	255	117 M30627
194	Set Counting time for jugdmet of normal mode	For Korea special version	255	10 M30627
195	Set judgment time for jugd to Multiplex at normal mode	For Korea special version	255	64 M30627
196	Select over modulated mode	For Korea special version	2	0 M30627
197	Set over modulated mode 1	For Korea special version	255	18 MSP4450G
198	Set over modulated mode 2	For Korea special version	255	32 MSP4450G
199	L_PLL GAIN	-	1	0 TDA9885
200	HDMI Ccolorimetry adjustment 0:priority signal Format / 1:priority AVI InfoFrame	HDMI	1	0 HDMI
201	BPMA : Back Porch Mode,Field2 position adjustment	-	1	1 HDMI
202	Reserved	-	-	-
203	Select HDMI 1/2 at no using 0: Both no select,1:Select HDMI 1, 2:Select HDMI 2	-	2	0 HDMI
204	CM_THRESHOLD (D15-D8)	Sync=NG	254	0 MSP4450G
205	CM_THRESHOLD (D7-D0)	Sync=NG	254	0 MSP4450G
206	M_LPF1 OUT1 PbPr LPF Select	RF/Video	3	1 AN15867A
207	M_LPF2 OUT1 PbPr LPF Select	480i/576i	3	2 AN15867A
208	M_LPF3 OUT1 PbPr LPF Select	480p/576p	3	2 AN15867A
209	M_LPF4 OUT1 PbPr LPF Select	1080i/720p	3	3 AN15867A
210	M_LPF5 OUT1 CY LPF Select	RF/Video	3	1 AN15867A
211	M_LPF6 OUT1 CY LPF Select	480i/576i	3	2 AN15867A
212	M_LPF7 OUT1 CY LPF Select	480p/576p	3	2 AN15867A
213	M_LPF8 OUT1 CY LPF Select	1080i/720p	3	3 AN15867A
214	Audio Delay Time (0:149ms, 1:131ms, 2:93ms, 3:75ms)	RF	3	0 M30627
215	Audio Delay Time (0:149ms, 1:131ms, 2:93ms, 3:75ms)	except RF	3	0 M30627
216	Luminance brightness control NTSC3.58 DBRI[7:0]	-	255	128 SAA7117A
217	Luminance brightness control NTSC4.43 DBRI[7:0]	-	255	145 SAA7117A
218	Luminance brightness control PAL DBRI[7:0]	-	255	128 SAA7117A
219	Luminance brightness control N-PAL DBRI[7:0]	-	255	128 SAA7117A
220	Luminance brightness control M-PAL DBRI[7:0]	-	255	145 SAA7117A
221	Luminance brightness control PAL-60 DBRI[7:0]	-	255	145 SAA7117A
222	Luminance brightness control SECAM/BW(50) DBRI[7:0]	-	255	128 SAA7117A
223	Luminance brightness control BW(60) DBRI[7:0]	-	255	145 SAA7117A
224	ISXAVR	000BH	-	- PDP
225	TUNER UNIT SELECT 0:FW1-UNIT, 1:PW3-UNIT	-	1	0 -
226	COMPONENT(AV2&3-RGB) brightness control CBRI[7:0]	-	255	128 SAA7117A
227	COMPONENT(AV2&3-RGB) contrast control CCON[7:0]	-	255	64 SAA7117A
228	COMPONENT(AV2&3-RGB) saturation control CSAT[7:0]	-	255	64 SAA7117A
229	XCLK OUTPUT CLOCK PHASE CONTROL XPCK[1:0]	-	3	1 SAA7117A
230	EVENT HANDLER CONTROL STRC[1:0]	-	3	0 SAA7117A

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Adj. No.	Function	Max. Value	Init. Value	Device	
ADJ. Items					
231	CONFIGURATION SOURCE SELECTION CONLV	1	0	SAA7117A	
232	CONFIGURATION SOURCE SELECTION HLDV	1	0	SAA7117A	
233	LOUD MAIN (for BBE=LOW , Truebase=OFF)	254	20	MSP4450G	
234	LOUD MAIN (for BBE=HIGH, Truebase=OFF)	254	28	MSP4450G	
235	BASS OFST (for BBE=LOW , Truebase=OFF)	10	1	MSP4450G	
236	BASS OFST (for BBE=HIGH, Truebase=OFF)	10	3	MSP4450G	
237	LOUD MAIN (for BBE=LOW , Truebase=LOW/HIGH)	254	16	MSP4450G	
238	LOUD MAIN (for BBE=HIGH, Truebase=LOW/HIGH)	254	22	MSP4450G	
239	SUBW FREQ (for Truebase=LOW)	40	15	MSP4450G	
240	MB HP (for Truebase=LOW)	48	10	MSP4450G	
241	MB LP (for Truebase=LOW)	48	15	MSP4450G	
242	MB STR (for Truebase=LOW)	75	52	MSP4450G	
243	SUBW FREQ (for Truebase=HIGH)	40	15	MSP4450G	
244	MB HP (for Truebase=HIGH)	48	10	MSP4450G	
245	MB LP (for Truebase=HIGH)	48	15	MSP4450G	
246	MB STR (for Truebase=HIGH)	75	57	MSP4450G	
247	SRS FOCUS (for SRS=NRML)	127	0	MSP4450G	
248	SRS FOCUS (for SRS=WIDE)	127	0	MSP4450G	
249	SUR SUR (for SRS=NRML)	3	1	MSP4450G	
250	SUR SUR (for SRS=WIDE)	3	0	MSP4450G	
251	SUR FRONT (for SRS=NRML)	2	0	MSP4450G	
252	SUR FRONT (for SRS=WIDE)	2	0	MSP4450G	
253	ANALOG GAIN 1 AGA1[2]&AGA1[1:0]	Y/C : NTSC3.58	7	2	SAA7117A
254	ANALOG GAIN 2 AGA2[2]&AGA2[1:0]	Y/C : NTSC3.58	7	2	SAA7117A
255	DIGITAL GAIN 1 DGA1[5:0]	Y/C : NTSC3.58	63	42	SAA7117A
256	DIGITAL GAIN 2 DGA2[5:0]	Y/C : NTSC3.58	63	42	SAA7117A
257	ANALOG GAIN 1 AGA1[2]&AGA1[1:0]	Y/C : NTSC4.43	7	2	SAA7117A
258	ANALOG GAIN 2 AGA2[2]&AGA2[1:0]	Y/C : NTSC4.43	7	2	SAA7117A
259	DIGITAL GAIN 1 DGA1[5:0]	Y/C : NTSC4.43	63	42	SAA7117A
260	DIGITAL GAIN 2 DGA2[5:0]	Y/C : NTSC4.43	63	42	SAA7117A
261	ANALOG GAIN 1 AGA1[2]&AGA1[1:0]	Y/C : OTHERS	7	2	SAA7117A
262	ANALOG GAIN 2 AGA2[2]&AGA2[1:0]	Y/C : OTHERS	7	2	SAA7117A
263	DIGITAL GAIN 1 DGA1[5:0]	Y/C : OTHERS	63	45	SAA7117A
264	DIGITAL GAIN 2 DGA2[5:0]	Y/C : OTHERS	63	45	SAA7117A
265	ANALOG GAIN 1 AGA1[2]&AGA1[1:0]	CVBS: NTSC3.58	7	2	SAA7117A
266	DIGITAL GAIN 1 DGA1[5:0]	CVBS: NTSC3.58	63	42	SAA7117A
267	ANALOG GAIN 1 AGA1[2]&AGA1[1:0]	CVBS: NTSC4.43	7	2	SAA7117A
268	DIGITAL GAIN 1 DGA1[5:0]	CVBS: NTSC4.43	63	42	SAA7117A
269	ANALOG GAIN 1 AGA1[2]&AGA1[1:0]	CVBS: OTHERS	7	2	SAA7117A
270	DIGITAL GAIN 1 DGA1[5:0]	CVBS: OTHERS	63	45	SAA7117A
271	Luminance Improvement Control [LIMOD]		3	0	SAA7117A
272	Luminance Improvement Control [LIFIL]		7	0	SAA7117A
273	Luminance Improvement Control [LIWGT]		7	6	SAA7117A
274	Chrominance Improvement Control [CIMOD]		3	0	SAA7117A
275	Chrominance Improvement Control [CIFIL]		7	0	SAA7117A
276	Chrominance Improvement Control [CIWGT]		3	0	SAA7117A
277	Reserved		-	-	-
278	Reserved		-	-	-
279	Reserved		-	-	-
280	Reserved		-	-	-
281	Reserved		-	-	-
282	Reserved		-	-	-
283	Reserved		-	-	-
284	Reserved		-	-	-
285	Reserved		-	-	-
286	Reserved		-	-	-
287	Reserved		-	-	-
288	Reserved		-	-	-
289	Reserved		-	-	-
290	Reserved		-	-	-
291	Reserved		-	-	-
292	Reserved		-	-	-
293	Reserved		-	-	-
294	Reserved		-	-	-
295	Reserved		-	-	-
296	Reserved		-	-	-
297	Reserved		-	-	-
298	Reserved		-	-	-
299	Reserved		-	-	-
300	Reserved		-	-	-
301	Reserved		-	-	-
302	Reserved		-	-	-
303	Reserved		-	-	-
304	Reserved		-	-	-
305	Reserved		-	-	-
306	Reserved		-	-	-
307	Reserved		-	-	-
308	Reserved		-	-	-

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Adj. No.	Function		Max. Value	Init. Value	Device
	ADJ. Items	Mode			
309	Reserved		-	-	-
310	Reserved		-	-	-
311	Reserved		-	-	-
312	Reserved		-	-	-
313	Reserved		-	-	-
314	Reserved		-	-	-
315	Reserved		-	-	-
316	Reserved		-	-	-
317	Reserved		-	-	-
318	Reserved		-	-	-
319	Reserved		-	-	-
320	Reserved		-	-	-
321	Reserved		-	-	-
322	Reserved		-	-	-
323	Reserved		-	-	-
324	Reserved		-	-	-
325	Reserved		-	-	-
326	Reserved		-	-	-
327	Reserved		-	-	-
328	Reserved		-	-	-
329	Reserved		-	-	-
330	Reserved		-	-	-
331	Reserved		-	-	-
332	Reserved		-	-	-
333	Reserved		-	-	-
334	Reserved		-	-	-
335	Reserved		-	-	-
336	Reserved		-	-	-
337	Reserved		-	-	-
338	Reserved		-	-	-
339	Reserved		-	-	-
340	Reserved		-	-	-
341	Reserved		-	-	-
342	Reserved		-	-	-
343	Reserved		-	-	-
344	Reserved		-	-	-
345	Reserved		-	-	-
346	Reserved		-	-	-
347	Reserved		-	-	-
348	Reserved		-	-	-
349	Reserved		-	-	-
350	Reserved		-	-	-
351	Reserved		-	-	-
352	Reserved		-	-	-
353	Reserved		-	-	-
354	Reserved		-	-	-
355	Reserved		-	-	-
356	Reserved		-	-	-
357	Reserved		-	-	-
358	Reserved		-	-	-
359	Reserved		-	-	-
360	Reserved		-	-	-
361	Reserved		-	-	-
362	Reserved		-	-	-
363	Reserved		-	-	-
364	Reserved		-	-	-
365	Reserved		-	-	-
366	Reserved		-	-	-
367	Reserved		-	-	-
368	Reserved		-	-	-
369	Reserved		-	-	-
370	Reserved		-	-	-
371	Reserved		-	-	-
372	Reserved		-	-	-
373	Reserved		-	-	-
374	Reserved		-	-	-
375	Reserved		-	-	-
376	Reserved		-	-	-
377	Reserved		-	-	-
378	Reserved		-	-	-
379	Reserved		-	-	-
380	Reserved		-	-	-
381	Reserved		-	-	-
382	Reserved		-	-	-
383	Reserved		-	-	-
384	Reserved		-	-	-
385	Reserved		-	-	-
386	Reserved		-	-	-

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Adj. No.	Function	Max. Value	Init. Value	Device
ADJ. Items	Mode			
387	Reserved	-	-	-
388	Reserved	-	-	-
389	Reserved	-	-	-
390	Reserved	-	-	-
391	Reserved	-	-	-
392	Reserved	-	-	-
393	Reserved	-	-	-
394	Reserved	-	-	-
395	Reserved	-	-	-
396	Reserved	-	-	-
397	Reserved	-	-	-
398	Reserved	-	-	-
399	Custom tuning 0:SINGAPORE, 1:HONG KONG, 2:AUSTRALIA, 3:CHINA, 4:Reserved	4	3	-
400	Mode display 0:Normal, 1:RF mode only, 2:AI	2	0	M30627
401	Temperature for Fun start (Temp_High)	254	58	TEMP
402	Temperature for Fun stop (Temp_Low)	254	55	TEMP
403	Display of internal temperature °C (Temperature)	125	-	TEMP
404	Power Save/Screen Saver On/Off Setting at Initialize, Reset and Shipping	2	0	M30627
	P.S/S.S 0:Off/20m 1:On/Off 2:Off/Off			
405	PC Power Save function (0:Impossible, 1:Possible)	1	1	M30627
406	Waite Time for POWER SAVE function (s)	254	15	M30627
407	BURN-IN enable/ disable	1	1	M30627
	0:Disenable, 1:Enable			
408	BURN-IN mode	2	2	PDP
409	Recovery to an error of OSC frequency of Ceramic resonator for timer	62	34	M30627
410	EURO DK-SECAM MASK(V=60) 0:Normal 1:Mask(V=60)	1	0	-
411	Set Sound System at Auto mode of Sound Sys. (0:auto, 1:4.5MHz)	1	0	M30627
	Main			
412	Power condition at power save mode of PC mode after done RESET function	1	0	M30627
	0:Keep last condition, 1:Return to normal condition			
413	Select Wide mode for Europe model (Normal= 5mode/ For Service= 10 mode)	1	0	M30627
	0:Normal, 1:For service			
414	Thermo sensor function available or not 0:None, 1:Yes	1	0	M30627
415	EURO SOUND SYSTEM DK Disable 0:Enable, 1:Disable	1	0	M30627
416	Remote Function available 0:NO, 1:YES	1	1	M30627
417	Key Function available 0:NO, 1:YES	1	1	M30627
418	Terminal Mode Function available 0:Not Available, 1:Available	1	1	M30627
	RS232C			
419	Set Taiwan/Korea/South America 0:Others 1: Taiwan/Korea/South America	1	0	M30627
420	Language (Refer to below)	10	0	M30627
421	Hotel Mode(0:No, 1:Yes)	2	0	M30627
422	Initial Audio Level available (0:No 1: Yes)	1	0	M30627
423	Initial Audio Level	63	20	M30627
424	Size button available (0:No 1:Yes)	1	1	M30627
425	Multi Picture button available (0:No 1:Yes)	1	1	M30627
426	Photo button available (0:No 1:Yes)	1	1	M30627
427	Analog Data (0:Keep EEPROM, 1:Not Keep to EEPROM)	1	0	M30627
428	Maximum Volume Limit	63	63	M30627
429	Power Mode(0:Last mode, 1:Pos1, 2-7:V1-6, 8-9:RGB1-2)	9	0	M30627
430	Channel Select (0:CCIR, 1:CHINA)	1	0	M30627
431	Auto_sound 4.5 (0:Korea, 1:BTSC, 2:Japan)	2	0	M30627
432	T/TEXT(0:None, 1:Yes)	1	1	M30627
433	Channel Preset(0:VESTEL, 1:GIFU, 2:HAMA, 3:HFDM, 4:AUSTRALIA)	4	1	M30627
434	Australia Preset 0: None, 1: yes	1	0	M30627
435	V FREQ 60Hz Force (0:None, 1:Yes)	1	0	M30627
436	Power control for Pay TV	255	0	M30627
437	Set timer to power off (for Pay TV)	255	0	M30627
438	Gray level of BM	31	4	BM
439	Display of BM version	127	-	BM
440	PANORAMIC1/2 for AUTO[PANORAMIC]	1	0	-
	PANORAMIC1[0] / 2[1]			
441	Set upper limit value(%) of stable picture of DTT	6	0	M30627
	0:always invalidity 1:100%,2:80%,3:60%, 4:40%,5:20%,6:0%(always validity)			
442	T/Text Station Name Timeout	255	80	-
	*80ms			
443	DTT-TEXT Analog/Digital SW (for Continental Model)	1	0	-
	0:Analog, 1:Digital			
444	For Event Timer Function check 0:Normal(Off), 1:High, 2:Middle	2	0	-
445	DTT Function Available 0: Not Available, 1: Available	1	0	M30627
446	fH frequency of decision agreement (M30627)	31	2	M30627
447	fV frequency of decision agreement (M30627)	31	2	M30627
448	fV frequency of decision agreement (SAA7117A)	31	2	M30627
449	Lower Limits value for Sync Detect of 2ms interval	254	25	M30627
	For AFC at TV mode			
450	Lower Limits value for Sync Detect of 2ms interval	254	30	M30627
	For Free Running at TV mode			
451	Lower Limits value for Sync Detect of 2ms interval	254	25	M30627
	For AUTO OFF at TV mode			
452	Lower Limits value for Sync Detect of 2ms interval	254	25	M30627
	For Free Running at AV mode			
453	Lower Limits value for Sync Detect of 2ms interval	254	25	M30627
	For Power Save at AV mode			
454	Upper Limits Value for Sync Detect of 2ms interval	254	40	M30627
	For AFC at TV mode			
455	Upper Limits Value for Sync Detect of 2ms interval	254	45	M30627
	For Free Running at TV mode			
456	Upper Limits Value for Sync Detect of 2ms interval	254	35	M30627
	For AUTO OFF at TV mode			
457	Upper Limits Value for Sync Detect of 2ms interval	254	35	M30627
	For Free Running at AV mode			

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Adj. No.	Function	Max. Value	Init. Value	Device	
ADJ. Items					
458	Upper Limits Value for Sync Detect of 2ms interval	For Power Save at AV mode	254	45	M30627
459	COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ...)	Main	-	-	M30627
460	COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ...)	Sub	-	-	M30627
461	2ms synchronus count value	Main	-	-	M30627
462	2ms synchronus count value	Sub	-	-	M30627
463	TB1274 Read Data(00h)	Sub	-	-	TB1274
464	TB1274 Read Data(01h)	Sub	-	-	TB1274
465	MSP Read Data (CNTRLO) (D15-D8)		-	-	MSP4450G
466	MSP Read Data (CNTRLO) (D 7-D0)		-	-	MSP4450G
467	MSP Read Data (STANDARD RES) (D15-D8)		-	-	MSP4450G
468	MSP Read Data (STANDARD RES) (D 7-D0)		-	-	MSP4450G
469	MSP Read Data (STATUS) (D15-D8)		-	-	MSP4450G
470	MSP Read Data (STATUS) (D 7-D0)		-	-	MSP4450G
471	HDMI Read Data SYNC1 : VSYNC/Clock detect/Sync detect 1		-	-	HDMI
472	HDMI Read Data NHRDL1 : N hardware value 1 lower 7 bit		-	-	HDMI
473	HDMI Read Data NHRDM1 : N hardware value 1 1 lower 7 bit		-	-	HDMI
474	HDMI Read Data NHRDH1 : N hardware value 1 1 lower 4 bit		-	-	HDMI
475	HDMI Read Data CHRDL1 : CTS hardware value 1 1 lower 7 bit		-	-	HDMI
476	HDMI Read Data CHRDM1 : CTS hardware value 1 1 lower 7 bit		-	-	HDMI
477	HDMI Read Data CHRDH1 : CTS hardware value 1 1 lower 4 bit		-	-	HDMI
478	HDMI Read Data ACR1 : ACR PLL hardware value 1		-	-	HDMI
479	HDMI Read Data ACRS1 : ACR PLL hardware value 1 depend Source side		-	-	HDMI
480	HDMI Read Data SFREQ1 : "Extracted Sampling Frequency 1 channel status b24-27(same value at 0x30)"		-	-	HDMI
481	HDMI Read Data CLKFRQ1: Clock Accuracy/Sampling Frequency 1		-	-	HDMI
482	HDMI Read Data ALNG1 : Audio length/Audio length max 1		-	-	HDMI
483	HDMI Read Data MT_MD1 : AV mute/HDMI mode 1		-	-	HDMI
484	HDMI Read Data VTYP1 : AVI infoframe type code 1(request)		-	-	HDMI
485	HDMI Read Data VVER1 : AVI infoframe version code 1(request)		-	-	HDMI
486	HDMI Read Data VINFO11: AVI infoframe data 1		-	-	HDMI
487	HDMI Read Data VINFO21:		-	-	HDMI
488	HDMI Read Data VINFO31:		-	-	HDMI
489	HDMI Read Data VINFO41:		-	-	HDMI
490	HDMI Read Data VINFO51:		-	-	HDMI
491	HDMI Read Data ATYP1 : AUDIO InfoFrame Type Code 1(request)		-	-	HDMI
492	HDMI Read Data AVER1 : AUDIO InfoFrame Version Code 1(request)		-	-	HDMI
493	HDMI Read Data AINFO11: AUDIO InfoFrame Data Bytes 1		-	-	HDMI
494	HDMI Read Data AINFO21:		-	-	HDMI
495	HDMI Read Data AINFO31:		-	-	HDMI
496	HDMI Read Data AINFO41:		-	-	HDMI
497	HDMI Read Data AINFO51:		-	-	HDMI
498	HDMI Read Data H-RES(H) decimal x 100		-	-	HDMI
499	HDMI Read Data H-RES(L) decimal x 1		-	-	HDMI
500	HDMI Read Data V-RES(H) decimal x 100		-	-	HDMI
501	HDMI Read Data V-RES(L) decimal x 1		-	-	HDMI
502	HDMI Read Data INTR1:		-	-	HDMI
503	HDMI Read Data INTR2:		-	-	HDMI
504	HDMI Read Data INTR3:		-	-	HDMI
505	HDMI Read Data INTR4:		-	-	HDMI
506	HDMI Read Data INTR5:		-	-	HDMI
507	HDMI Read Data INTR6:		-	-	HDMI
508	IR through available 0:NO, 1:YES		1	1	M30627
509	Sub Video(SAA7117A)/RGB available Sub/RGB(0:N/N, 1:Y/Y, 2:N/Y, 3:Y/N)		3	1	M30627
510	Sub Video decoder Read Data 430Eh (Chrominance control 1)		-	-	SAA7117A
511	Sub Video decoder Read Data 431Eh (Status byte 1)		-	-	SAA7117A
512	Sub Video decoder Read Data 431Fh (Status byte 2)		-	-	SAA7117A
513	Sub Video decoder Output (0:I-Port, 1:X-Port) *X-Port = quality NG -> use I-Port		1	0	SAA7117A
514	Gain Control GAFIXA/GAFIXD 0:Auto(AGC), 1:Manual(static)		1	1	SAA7117A
515	CSTDJ[2:0] for AUTO (4:PAL/NTSC-J, 5:SECAM/NTSC-M, other:PAL/NTSC-M)		5	4	SAA7117A
516	Reserved		-	-	-
517	Screen saver available (for Teletext=ON) 0:No, 1:Yes		1	0	-
518	Reserved		-	-	-
519	Reserved		-	-	-
520	HDMI Read Data DE_PIXL		-	-	HDMI
521	HDMI Read Data DE_PIXH		-	-	HDMI
522	HDMI Read Data DE_LINL		-	-	HDMI
523	HDMI Read Data DE_LINH		-	-	HDMI
524	HDMI Read Data VID_VTAVL		-	-	HDMI
525	HDMI Read Data VID_VFP		-	-	HDMI
526	HDMI Read Data VID_STAT		-	-	HDMI
527	HDMI Read Data VID_HFP		-	-	HDMI
528	HDMI Read Data VID_HSWIDL		-	-	HDMI
529	HDMI Read Data VID_HSWIDH		-	-	HDMI
530	Reserved		-	-	-
531	Reserved		-	-	-
532	Reserved		-	-	-
533	Reserved		-	-	-
534	Reserved		-	-	-

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Adj. No.	Function	Max. Value	Init. Value	Device
ADJ. Items	Mode			
535	Reserved	-	-	-
536	Reserved	-	-	-
537	Reserved	-	-	-
538	Reserved	-	-	-
539	Reserved	-	-	-
540	Reserved	-	-	-
541	Reserved	-	-	-
542	Reserved	-	-	-
543	Reserved	-	-	-
544	Reserved	-	-	-
545	Reserved	-	-	-
546	Reserved	-	-	-
547	Reserved	-	-	-
548	Reserved	-	-	-
549	Reserved	-	-	-
550	Reserved	-	-	-
551	Reserved	-	-	-
552	Reserved	-	-	-
553	Reserved	-	-	-
554	RF-PAL IF compensation Enable 0:Disable, 1:Enable	1	0	Subsys
555	DTT Force Reset 5:Yes(Reset), 0~4,6,7:No(Normal),	7	0	-
556	Sub system Busy Check 0:Disable, 1:Enable	1	1	-
557	Sub system Blanking (for DEBUG 0:Normal, 1:Main, 2:Sub, 3:Both)	3	0	Subsys
558	HDMI Output clock invert 0:Normal(Rising edge), 1:Invert(Falling edge)	1	0	HDMI
559	HDMI OUTPUT FORMAT (0:RGB4:4:4, 1/2:YCbCr4:4:4)	2	2	HDMI
560	Sub system status [00h]: Signal, Panel frame rate, Color system	-	-	-
561	Sub system status [01h]: Input signal mode	-	-	-
562	Sub system status [02h]: H.Freq.(H)	-	-	-
563	Sub system status [03h]: H.Freq.(L)	-	-	-
564	Sub system status [04h]: V.Freq.(H)	-	-	-
565	Sub system status [05h]: V.Freq.(L)	-	-	-
566	Sub system status [06h]: V.Total(H)	-	-	-
567	Sub system status [07h]: V.Total(L)	-	-	-
568	Sub system status [08h]: (OSD mode)	-	-	-
569	Sub system status [09h]: (Factory menu)	-	-	-
570	Sub system status [0Ah]: Teletext status(H)	-	-	-
571	Sub system status [0Bh]: Teletext status(L)	-	-	-
572	Sub system status [0Ch]: WSS info.	-	-	-
573	Sub system status [0Dh]: CNI code(H)	-	-	-
574	Sub system status [0Eh]: CNI code(L)	-	-	-
575	Sub system status [0Fh]: NI code(H)	-	-	-
576	Sub system status [10h]: NI code(L)	-	-	-
577	Sub system status [11h]: Version(H)	-	-	-
578	Sub system status [12h]: Version(L)	-	-	-
579	Sub system "Status-read" request available (0:No 1:Yes)	1	1	-
580	Sub system "OSD-packet" refresh available (0:No 1:Yes)	1	0	-
581	Sub system "Control-packet" refresh available (0:No 1:Yes)	1	0	-
582	Inp.Mode (0-2:AUTO, 3-10:576i/480i/576p/480p/720p60/1080i50/60/720p50)	10	0	-
583	Sub system H.B. stop count	254	0	-
584	Force Sub Video Decoder ON mode	1	0	-
585	No signal Power-ON DEBUG mode	1	0	-
586	Panel Blanking Enable (when the input signal is changed)	1	0	-
587	Input H.Freq.(Subsys-02&03h / 10) * cutoff below decimal point (31.5kHz -> "31")	-	-	-
588	Input V.Freq.(Subsys-04&05h / 10) * cutoff below decimal point (59.9Hz -> "59")	-	-	-
589	IIC BUS Data/Clock Open(0:Close, 1:Open)	1	0	M30627
590	HDMI EDID WRITE ENABLE	1	0	M30627
591	PDP-BLK ON/OFF	1	0	PDP
592	RS232C Terminal control mode 0:Terminal, 1:Genesis, 2:DTT(Write)	2	1	M30627
593	Reset function of accumulation time for LCD Panel	1	0	M30627
594	Accumulation time for Panel (hours)	65535	-	PDP
595	Display of Panel map version	255	-	PDP
596	W/B Initialize	1	-	M30627
597	Gain adjustment (Calibration)	1	-	-
598	EEPROM Initialize(0:No, 1:Yes)	1	0	M30627
599	Enter to adjust menu(2)	-	-	M30627
600	Enter to service menu of Sub-system	-	-	FLI8538

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Instructions in software renewal

After software version up, set the following lists for reference.

Service adjustment items by I²C-bus control (MAIN (1) Part)

No.	Function		Factory setting	Dealer setting
430	Channel Select	0 CCIR	0	0
		1 CHINA		
434	Australia Preset	0 None	0	1
		1 Yes		
445	DTT Function Available	0 Not Available	0	0
		1 Available		
509	Sub Video (SAA7117A) / RGB available	0 SUB:None / RGB:None	1	2
		1 SUB:Yes / RGB:Yes		
		2 SUB:None / RGB:Yes		
		3 SUB:Yes / RGB:None		
399	Custom tuning	0 Preset 0	3	0
		1 Preset 1		
		2 Preset 2		
		3 Preset 3		
		4 Reserved		

Power unit Adjustment

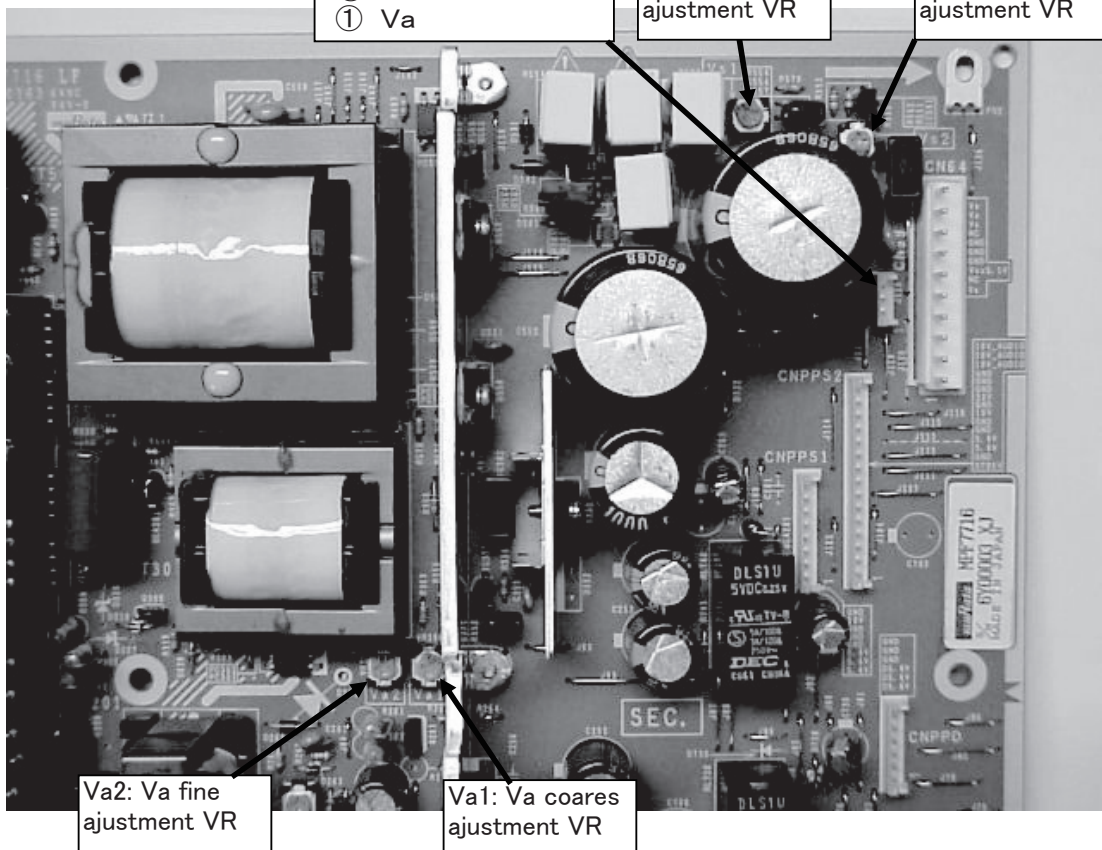
Item	Power Unit Vs,Va Adjustment	
Preparation		Procedure
(1)	Turn on the set and perform pre-heat run more than 1 min on burn-in screen.	Turn Vs ADJ to adjust Vs voltage to be within $\pm 0.1V$ of the value specified in the label on the panel. (1) Adjust within $\pm 1V$ at Vs1 (2) Adjust within $\pm 0.1V$ at Vs2
(2)	Connect voltmeter leads to Vs and GND test points of the power unit.	Turn Vs ADJ to adjust Vs voltage to be within $\pm 0.1V$ of the value specified in the label on the panel. (1) Adjust within $\pm 1V$ at Va1 (2) Adjust within $\pm 0.1V$ at Va2
(3)	Connect voltmeter leads to Vs and GND test points of the power unit.	(3) Reconfirm that Vs voltage remains within $\pm 0.45V$ of the specified value. Readjust if it's outside of the margin.
(3)	Connect voltmeter leads to Va and GND test points of the power unit.	(4) Reconfirm that Va voltage remains within $\pm 0.55V$ of the specified value. Readjust if it's outside of the margin.

Label example

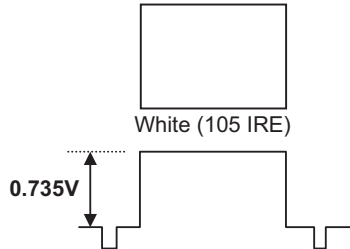
<LOT>N6
 Vs=80.0V Va=60.0V
 Vw=140.0V Vx=60.0V

CN99: Vs,Va test points

- ③ GND
- ② Vs
- ① Va

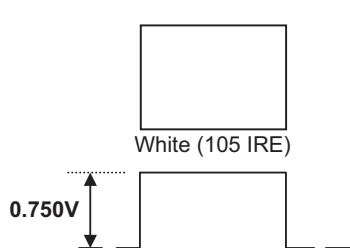
Vs1: Vs coares
ajustment VRVs2: Vs fine
ajustment VR

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Item	Amplitude Adjustment (Composite PAL)	
Preparation		Procedure
(1)	Input Composite PAL amplitude adjustment signal into AV3 terminal. <div style="border: 1px dashed black; padding: 10px; margin: 10px auto; width: fit-content;"> <p>Black pattern: Set pedestal level. Characters must not be inserted into this signal.</p>  </div>	(1) Receive Composite PAL adjustment signal and indicate Service Adjustment Menu.(Main (1)) (2) Select No.597 of Service Adjustment Menu. Press [OK] key more than 2 seconds to start the automatic adjustment. The adjustment completes when the OSD reappears.

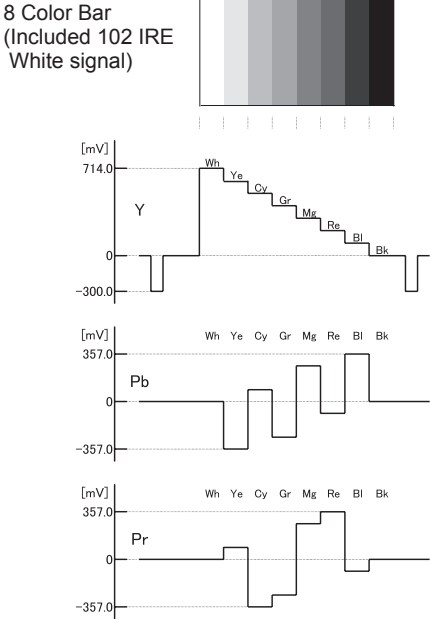
[Note] Never adjust without use of the specified signal.

If that were done by mistake, the picture would become abnormal in black level, contrast and color.
In this case, it will be recovered by re-adjustment in the specified way.

Item	Amplitude Adjustment (Composite NTSC)	
Preparation		Procedure
(1)	Input Composite NTSC adjustment signal into AV3 terminal. <div style="border: 1px dashed black; padding: 10px; margin: 10px auto; width: fit-content;"> <p>Black pattern: Set pedestal level. Characters must not be inserted into this signal.</p>  </div>	(1) Receive Composite NTSC adjustment signal, and indicate Service Adjustment Menu. (Main (1)) (2) Select No.597 of Service Adjustment Menu. Press [OK] key more than 2 seconds to start the automatic adjustment. The adjustment completes when the indication [Auto Mode] at the bottom of the screen disappears.

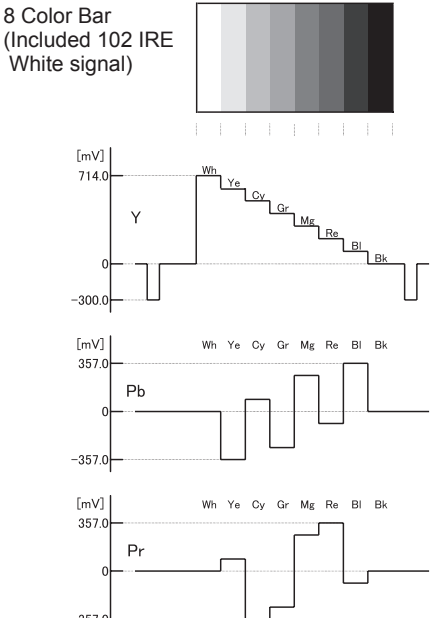
[Note] Never adjust without use of the specified signal.

If that were done by mistake, the picture would become abnormal in black level, contrast and color.
In this case, it will be recovered by re-adjustment in the specified way.

Item		Amplitude Adjustment (576p)	
Preparation		Procedure	
(1)	Input 576p adjustment signal into AV1 terminal. <div> 8 Color Bar (Included 102 IRE White signal)  </div>	(1)	Receive 576p adjustment signal, and indicate Service Adjustment Menu.(Main (1))
		(2)	Select No.597 of Service Adjustment Menu. Press [OK] key more than 2 seconds to start the automatic adjustment. The adjustment completes when the indication [Auto Mode] at the bottom of the screen disappears.

[Note] Never adjust without use of the specified signal.

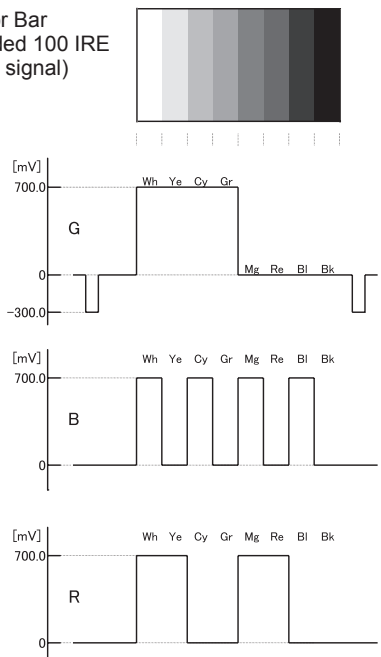
If that were done by mistake, the picture would become abnormal in black level, contrast and color.
 In this case, it will be recovered by re-adjustment in the specified way.

Item		Amplitude Adjustment (576i)	
Preparation		Procedure	
(1)	Input 576i adjustment signal into AV1 terminal. <div> 8 Color Bar (Included 102 IRE White signal)  </div>	(1)	Receive 576i adjustment signal, and indicate Service Adjustment Menu.
		(2)	Select No.597 of Service Adjustment Menu. Press [OK] key more than 2 seconds to start the automatic adjustment. The adjustment completes when the indication [Auto Mode] at the bottom of the screen disappears.

[Note] Never adjust without use of the specified signal.

If that were done by mistake, the picture would become abnormal in black level, contrast and color.
 In this case, it will be recovered by re-adjustment in the specified way.

50PD9800TA (FW1)

Item	Amplitude Adjustment (PC D-Sub input)	
Preparation		Procedure
(1)	Input RGB amplitude adjustment signal of VGA (60Hz) into RGB [D-sub] terminal.	(1) Receive PC signal (VGA [60Hz]), and indicate Service Adjustment Menu.(Main)
	<div><div>8 Color Bar (Included 100 IRE White signal)</div></div>	(2) Select No.597 of Service Adjustment Menu. Press [OK] key more than 2 seconds to start the automatic adjustment. The adjustment completes when the OSD reappears.

[Note] Never adjust without use of the specified signal.

If that were done by mistake, the picture would become abnormal in black level, contrast and color. In this case, it will be recovered by re-adjustment in the specified way.

50PD9800TA (FW1)

Item		Video Color Temperature Adjustment (Cool)	
Adjustment Preparations		Adjustment Procedures	
(1)	Set the signal generator output as All White.	(1)	Perform the following adjustment with the remote control
(2)	Component signal (480i) Video level : 0.700Vp-p Sync level : 0.300Vp-p Setup level : 0V	(2)	Set the CRT color analyzer (CA100) at the center of the panel.
(3)	Picture Menu is set as [RESET]. Picture Mode : Dynamic	(3)	Ensure that the service adjustment menu (Main (2)) No. 0, 1, 2, are all set as 255. (To display Main(2) menu, press "OK" button in Main(1) menu. No.599.)
(4)	Confirm that the mode is set as Factory Adjustment mode.	(4)	After receiving the video signal, step down the two (or one) among adjustment No. 0, 1, 2 and adjust the values as shown below. Note) At least one of the data should be 255.
		<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Specification</p> <p>Video color temperature (Cool)</p> <p>x=0.272±0.005</p> <p>y=0.277±0.005</p> </div>	

Item		Video Color Temperature Adjustment (Normal)	
Preparation		Procedure	
(1)	Set signal generator output as All White (Window ratio: 100%).	(1)	Perform the following adjustment with the remote control.
(2)	Component signal (480i) Video level : 0.700Vp-p Sync level : 0.300Vp-p Setup level : 0V	(2)	Set the CRT Color Analyzer (CA-100) at the center of the panel.
(3)	Check that Picture Menu is set as [RESET] mode. Picture Mode : Dynamic	(3)	Ensure that service adjustment menu (Main(2)) No. 3, 4, 5 are all set as 255.
(4)	Set into Factory Adjustment mode.	(4)	After receiving the video signal, step down the two (or one) among adjustment No. 3, 4, 5 and adjust the values as shown below. (Note) At least one of the data should be 255.
		<div style="border: 1px dashed black; padding: 10px; text-align: center;"> <p><Specification></p> <p>Video color Color temperature (Normal)</p> <p>x=0.285±0.005</p> <p>y=0.293±0.005</p> </div>	

50PD9800TA (FW1)

Item	Video Color Temperature Adjustment (Warm)	
	Preparation	Procedure
(1)	Set signal generator output as All White (Window ratio: 100%).	(1) Perform the following adjustment with the remote control.
(2)	Component signal (480i) Video level : 0.700Vp-p Sync level : 0.300Vp-p Setup level : 0V	(2) Set the CRT Color Analyzer (CA100) at the center of the panel.
(3)	Check that Picture Menu is set as [RESET] mode. Picture Mode : Dynamic	(3) Ensure that service adjustment menu (Main(2)) No. 6, 7, 8 are all set as 255.
(4)	Set into Factory Adjustment mode.	(4) After receiving the video signal, step down the two (or one) among adjustment No. 6, 7, 8 and adjust the values as shown below. (Note) At least one of the data should be 255. <div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <p><Specification> Video color Color temperature (Warm) $x=0.314 \pm 0.005$ $y=0.327 \pm 0.005$</p> </div>

Item	PC Color Temperature Adjustment	
	Preparation	Procedure
(1)	Perform the following adjustment after the video color temperature adjustment.	(1) Perform the following adjustment with remote control.
(2)	Set in Factory Adjustment mode.	(2) Write the results of the video color temp. adjustment (Cool/ Normal/ Warm) and No. 0, 1, 2, 3, 4, 5, 6, 7, 8 data into Adjustment No. 9, 10, 11, 12, 13, 14, 15, 16, 17 data of Service Adjustment Menu (Main(2)). Ex.) Video adjustment PC adjustment No.0 data → No.9 data No.1 data → No.10 data No.2 data → No.11 data

7. Troubleshooting

● How to get to Burn-in mode

This mode displays the test patterns of some single color raster in turn. These signals are from built-in generator of panel. So it can be presumed that maybe the panel has some trouble when the screen of Burn-in mode is abnormal.

Using the R-side control buttons with the set turned off (standby) can activate this mode.

Press the SUB-POWER(⏻) button and VOLUME DOWN(⏮) button at the same time, and hold for more than 5 seconds. (This operation is equal to select service Adjustment Menu No.407 and change data from 0 to 1.)

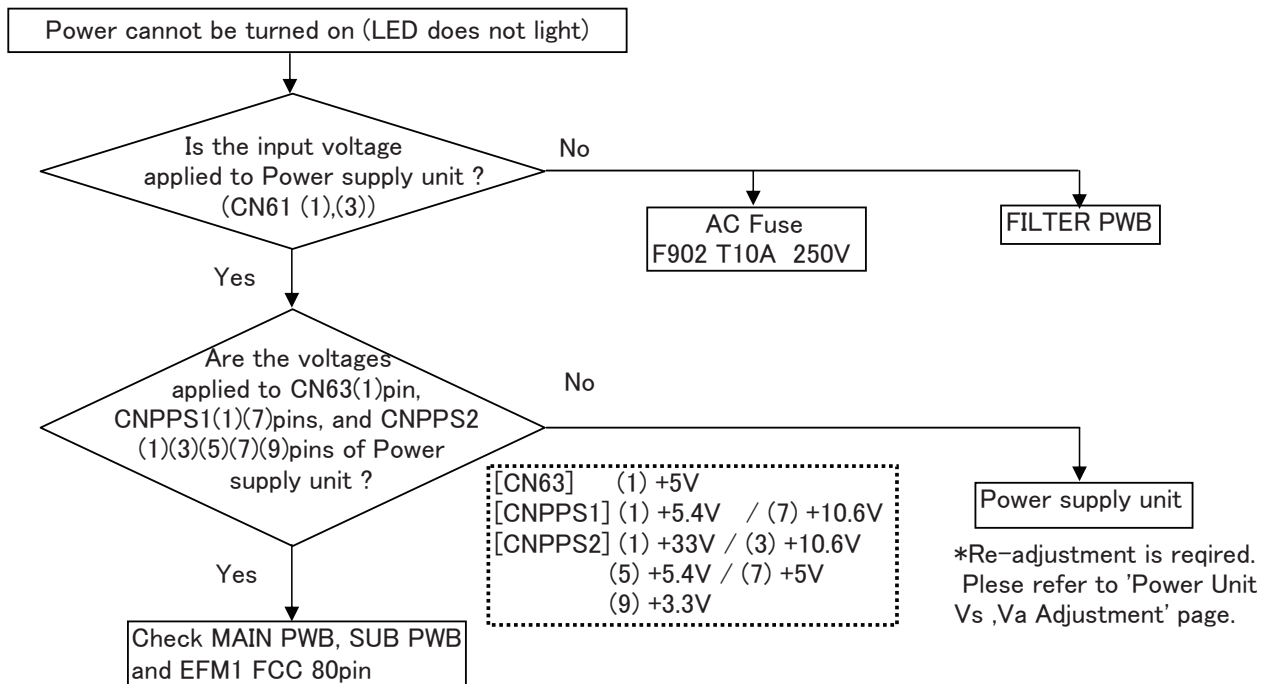
The set turns on with single color raster and the OSD of [BURN IN: ON].

To escape from this mode, press the SUB-POWER(⏻) button and ▲ button at the same time, and hold for more than 5 seconds. Burn-in mode will be released.

● How to check method of the use accumulation time for panel.

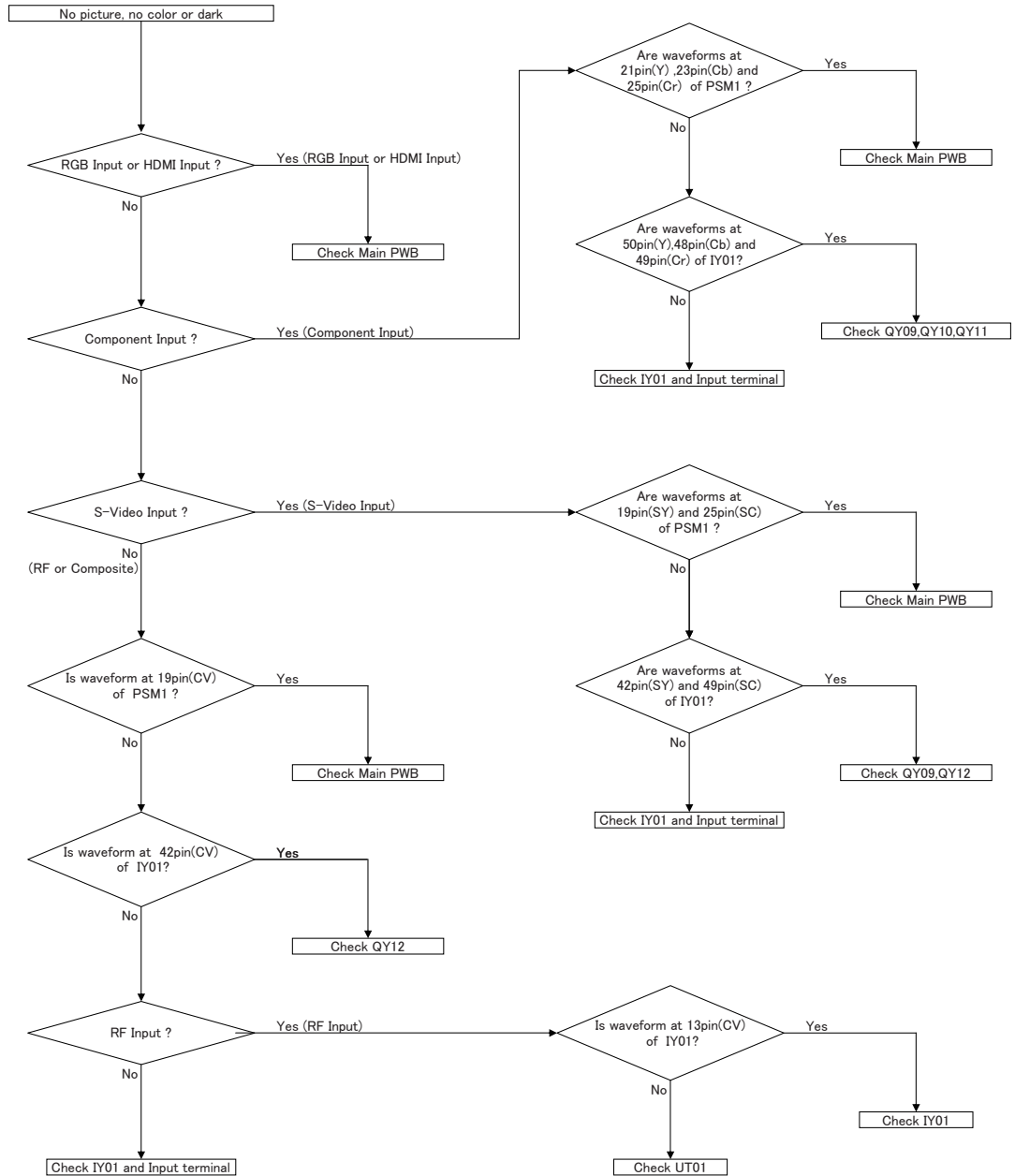
Select No.594 of Service Adjustment Menu.

Power

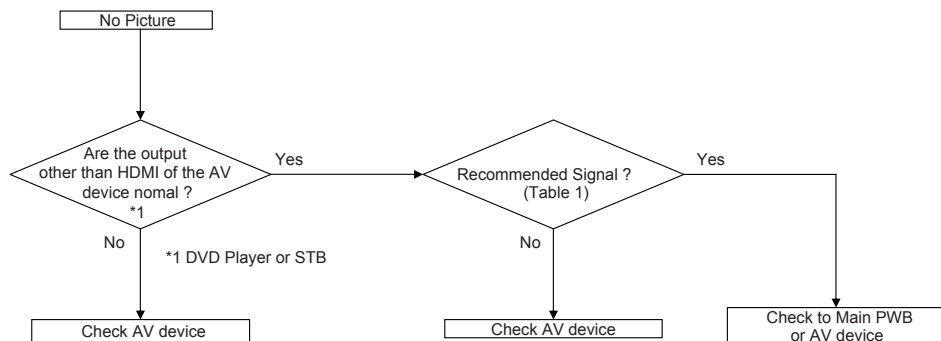


50PD9800TA (FW1)

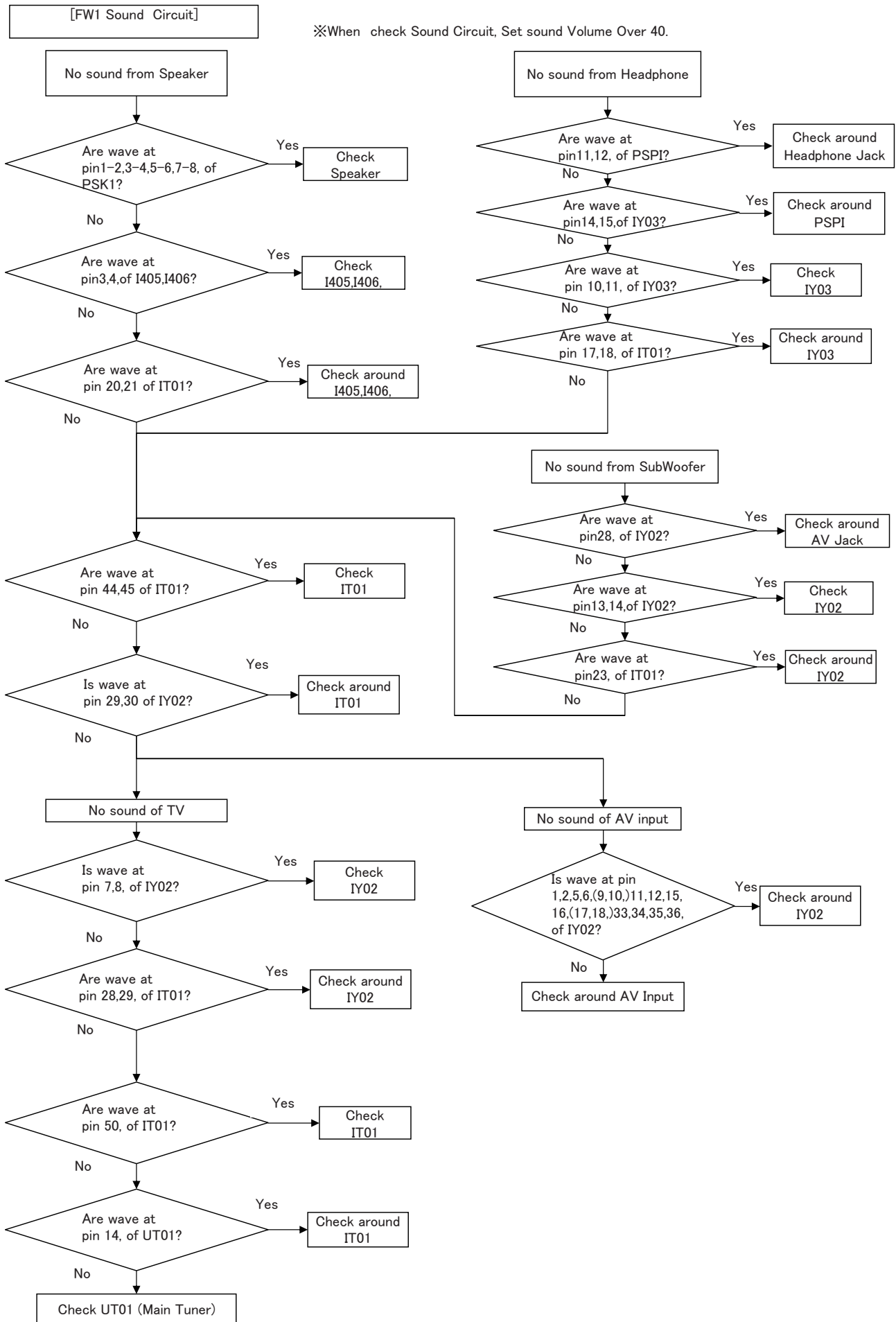
Main Picture [SUB PWB Circuit]



HDMI Picture [Main PWB Circuit]



50PD9800TA (FW1)



50PD9800TA (FW1)

Recommended Signal List

With HDMI input

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	VGA	640 X 480	59.94	31.47	25.18	EIA-861B
2	576i	720(1440) X 576	50.00	15.63	27.00	EIA-861B
3	480i	720(1440) X 480	59.94	15.73	27.00	EIA-861B
4	576p	720 X 576	50.00	31.25	27.00	EIA-861B
5	480p	720 X 480	59.94	31.47	27.00	EIA-861B
6	1080i/50	1920 X 1080	50.00	28.13	74.25	EIA-861B
7	1080i/60	1920 X 1080	60.00	33.75	74.25	EIA-861B
8	720p/50	1280 X 720	50.00	37.50	74.25	EIA-861B
9	720p/60	1280 X 720	60.00	45.00	74.25	EIA-861B
10	1080p/50	1920 X 1080	50.00	56.25	148.50	EIA-861B
11	1080p/60	1920 X 1080	60.00	67.50	148.50	EIA-861B

Table 1

With RGB input

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	VGA	640 X 400	70.08	31.47	25.18	
2		640 X 480	59.94	31.47	25.18	
3	VESA	800 X 600	60.32	37.88	40.00	
4		1024 X 768	60.00	48.36	65.00	
5		1280 X 1024	60.02	63.98	108.00	
6	W-XGA	1280 X 768	59.876	47.776	79.50	WXGA Mode : 1280x768
7		1366 X 768	60.015	47.712	85.50	WXGA Mode : 1366x768

Table 2

8. Self-Diagnosis Function

This chassis has 2 modes of self-diagnosis function.

- (1) PDP panel check mode: It indicates the one latest record of the PDP panel failure with blinking of the power indication light (LED).
- (2) Signal circuit check mode: It indicates the check result on some points of the signal circuit and the history of them with On-Screen Display (OSD).

● PDP panel self-diagnosis function

This function is for a PDP panel failure with no picture.

To enter to this Self-Diagnosis mode, follow the next steps:

Preparation:

- 1) The Power Cord should be connected to AC line and the Main Power switch should be turned on.
- 2) Turn the power off by the SUB-POWER(⏻) button by the control panel or by the remote control.

Procedure:

- 1) Press the SUB-POWER(⏻) button and ▼ button on the bottom of the monitor at the same time, and keep it for more than 5 seconds after the power turned on.
- 2) It generates red blinking series of the power indicator light.
- 3) Any operation would cancel the Self -Diagnosis mode.
- 4) The next table shows the PDP PWB in which failure most probably would be allocated according to the number of blinks.

Number of red blinks of power indication light	Presumed failing PWB of PDP panel
1	Logic
2	X-SUS
3	Y-SUS, SDM
4	X-SUS, Y-SUS, SDM, PSU
5	ABUS, ADM, PSU
6	ADM temperature
7	ADM temperature
8	All of above-mentioned PWB's

SDM: Scan Driver Module

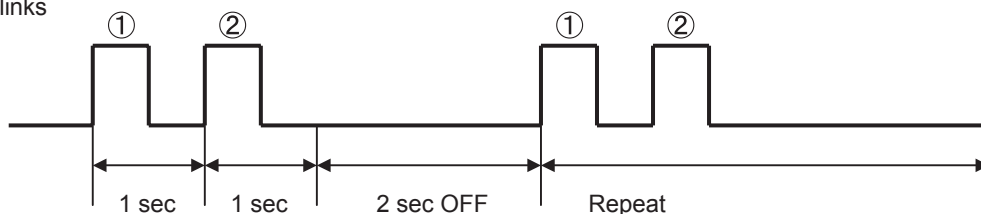
PSU: Power Supply Unit

ADM: Address Driver Module

Note) SDM is permanently contacted to glass part

[Blinking condition of power indication light]

Ex. 2 blinks



● Signal circuit self-diagnosis function

This function is for the failure of the signal circuit, for example the phenomenon as below:

"Sometimes power turns off abnormally." "Sometimes picture disappears abnormally."

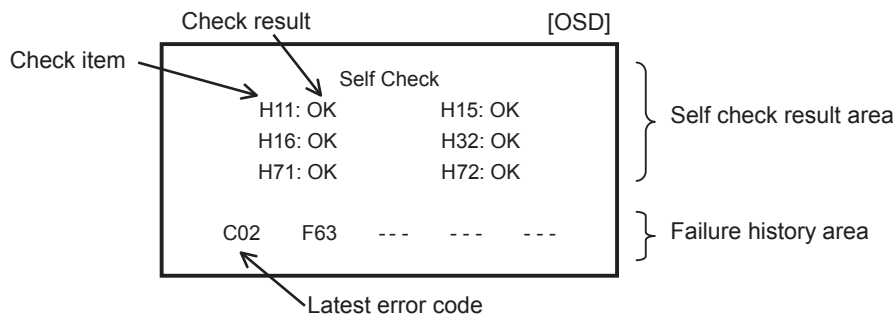
To enter to this Self-Diagnosis mode, follow the next steps:

Preparation:

- 1) The Power Cord should be connected to AC line and the Main Power switch should be turned on.
- 2) Turn the power off by the SUB-POWER(⏻) button by the control panel or by control panel the remote control.

Procedure:

- 1) Press the SUB-POWER(⏻) button and INPUT (↵) button on the side of the monitor at the same time, and keep it for more than 5 seconds after the power turned on.
- 2) The monitor will be turned on, and it will display On-Screen Display of the Self-check result and the failure history as below.
- 3) Any operation would cancel the Self -Diagnosis mode.
- 4) The following table shows the OSD symbols and contents of failure PWB in which failure most probably would be allocated according to the number of blinks.



Code	stored up in failure history	Self checking item	Problem	Phenomenon	Cause
C02	○	—	FAN problem	No picture and sound	FAN Motor has stopped
H11	—	○	Tuner problem	Cannot receive the main signal from antenna	Communication error of UT01
H15	—	○	Audio SW IC problem	Cannot receive audio Cannot change input mode	Communication error of IY02
H16	—	○	Video SW IC problem	Cannot receive picture. Cannot change input mode	Communication error of IY01
H71	—	○	HDMI IC problem	No picture	Communication error of IH05
H72	—	○	Sound processor problem	Cannot receive audio no sound	Communication error of IT01
F63	○	—	I ² C-bus latch problem	Cannot store setting data (Ex. Channel, Volume etc.)	SCL3/SDA3 latched up

If you clear history of failure, make FACTORY RESET: enter the factory setting mode; press the SUB-POWER(⏻) button and ▲ button on the control panel at the same time. And keep it for more than 5 seconds after the power turned on.

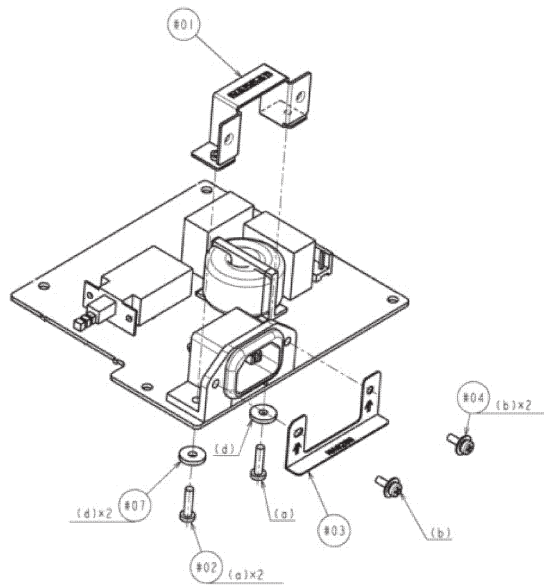
● Cannot insert an antenna cable and an RGB cable at the same time.

By an objection from the customer whom it is not given to insert the ANT input and an RGB cable, I offer an RGB cable of a thin type to a customer.

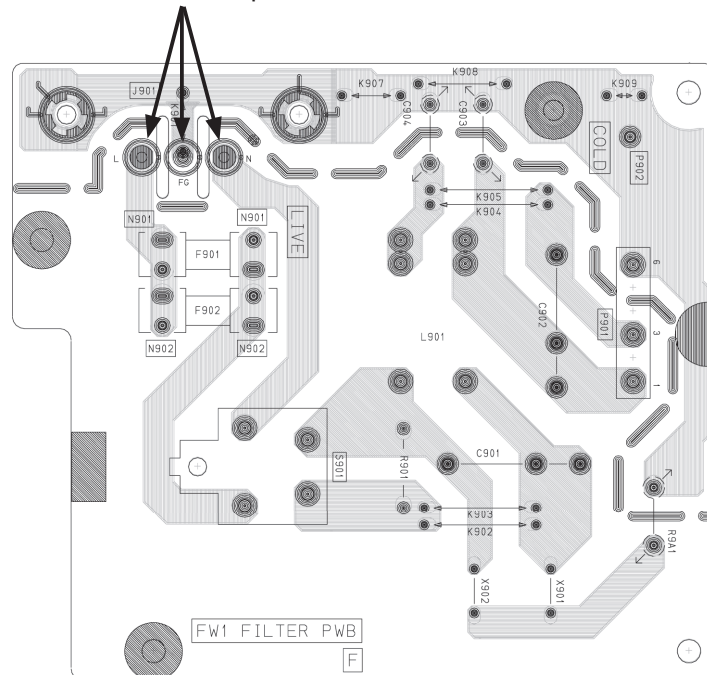
● How to replace AC inlet plug

For safety reason, please follow below procedure when replacing AC inlet plug (J901).

- 1) Remove Filter pwb from TV.
- 2) Remove 4pcs of screws (#04, #02)
(Note: If solder will be found in the "+" portion of the screws, please remove solder first then remove screws.)
- 3) Remove 3 points of solder of AC inlet plug (J901).
- 4) Replace AC inlet plug (J901).
- 5) Fix two metals (#01, #03) by screws (#04, #02). (Note: It is important to fix screws before soldering for avoid stress of soldering portion.)
- 6) Solder by solder iron. (3points)
- 7) Return Filter pwb to TV.



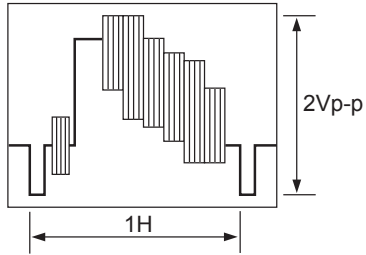
Remove of solder points.



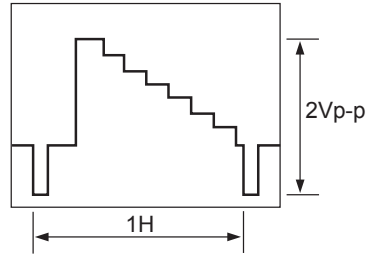
9. Basic circuit diagram

● Waveform

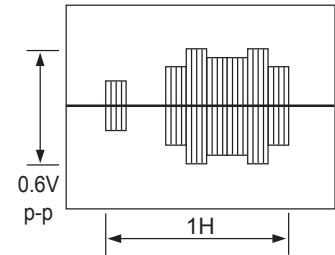
① IY01(MAIN.V)(42) PIN



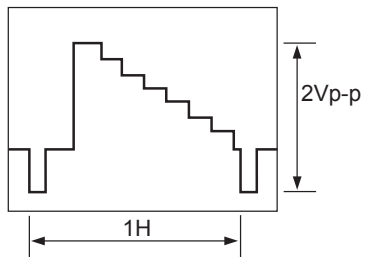
② IY01 YIN(MAIN S-VIDEO)(42) PIN



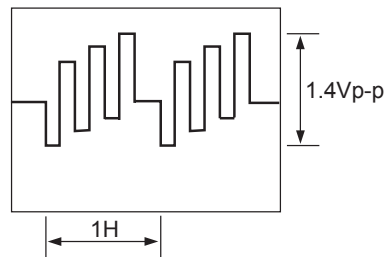
③ IY01 CIN(MAIN S-VIDEO)(49) PIN



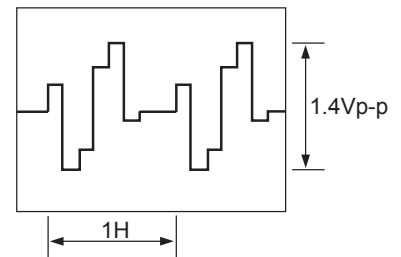
④ IY01 (Y)(50) PIN



⑤ IY01(PB)(48)PIN



⑥ IY01(PR)(49)PIN

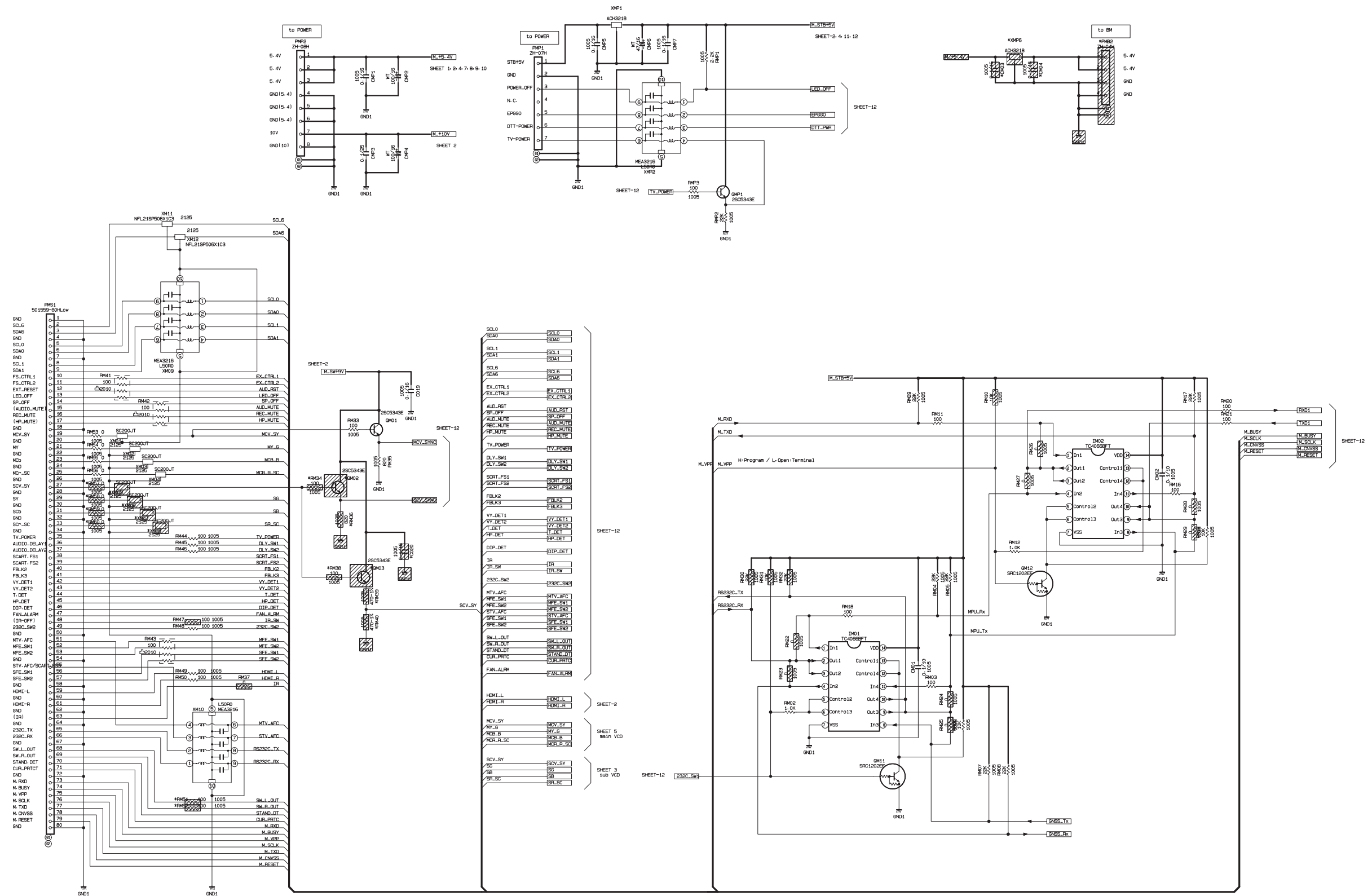


Basic circuit diagram list

PWB assembly MAIN 1	37
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PWB assembly SUB 3 (AUDIO SW/ADC/DAC)	51
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PWB assembly SUB 5 (CN I/F)	53
PWB assembly FILTER	54
PWB assembly CONTROL (Front Input)	55
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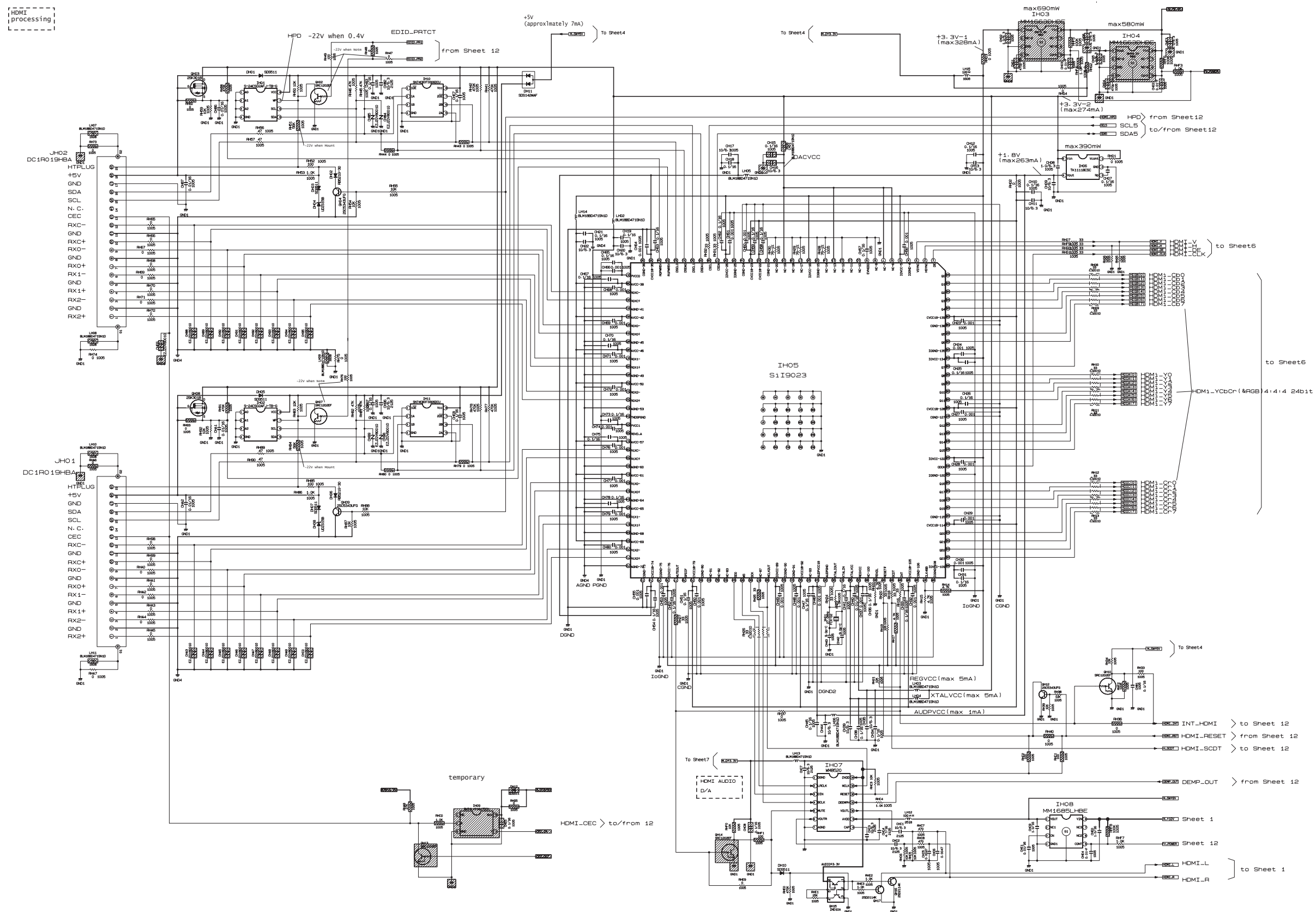
* PWB assembly POWER UNIT (stated separately)

50PD9800TA (FW1)



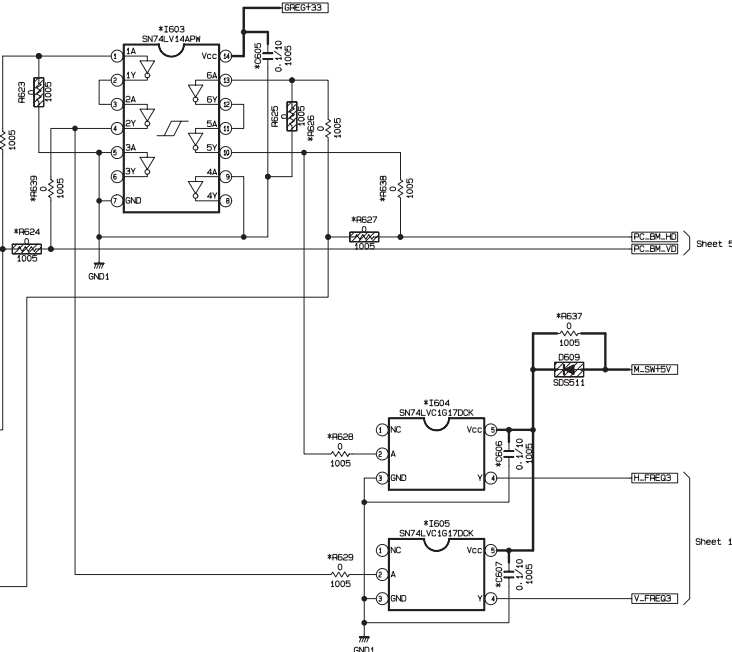
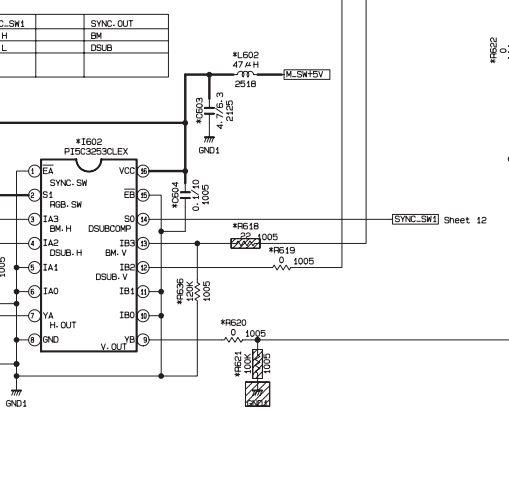
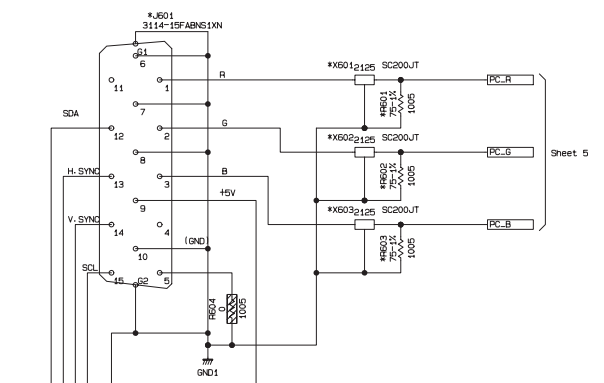
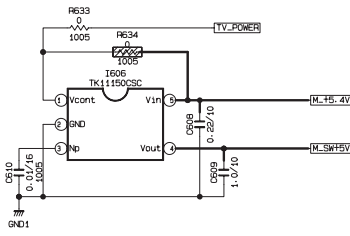
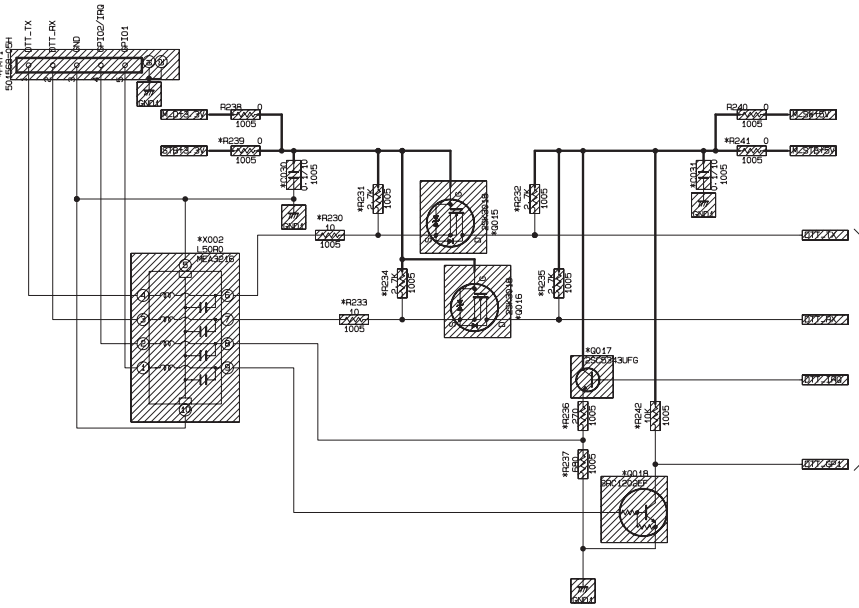
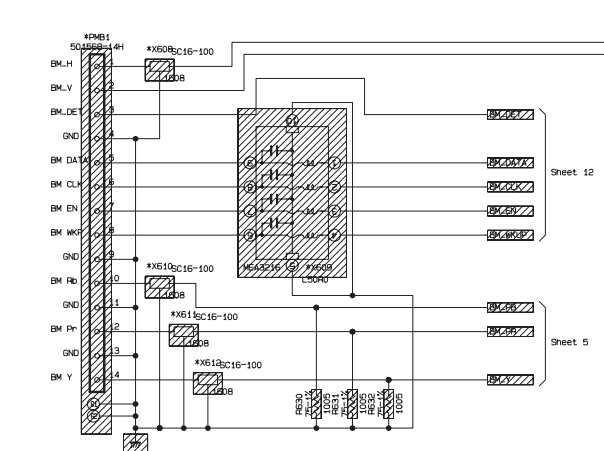
PWB assembly MAIN 1 (FW1)

50PD9800TA (FW1)



PWB assembly MAIN 2 (FW1)



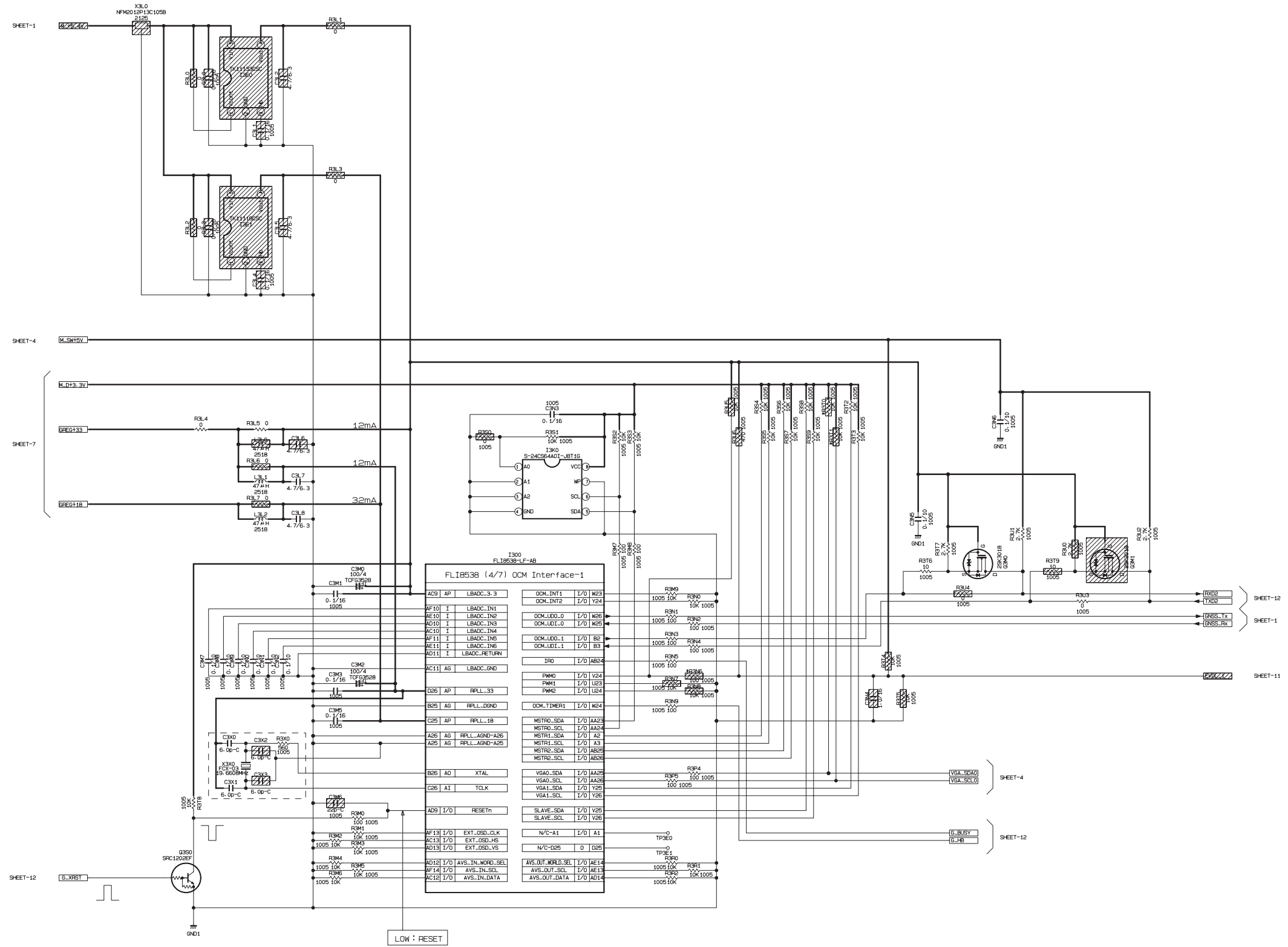




42

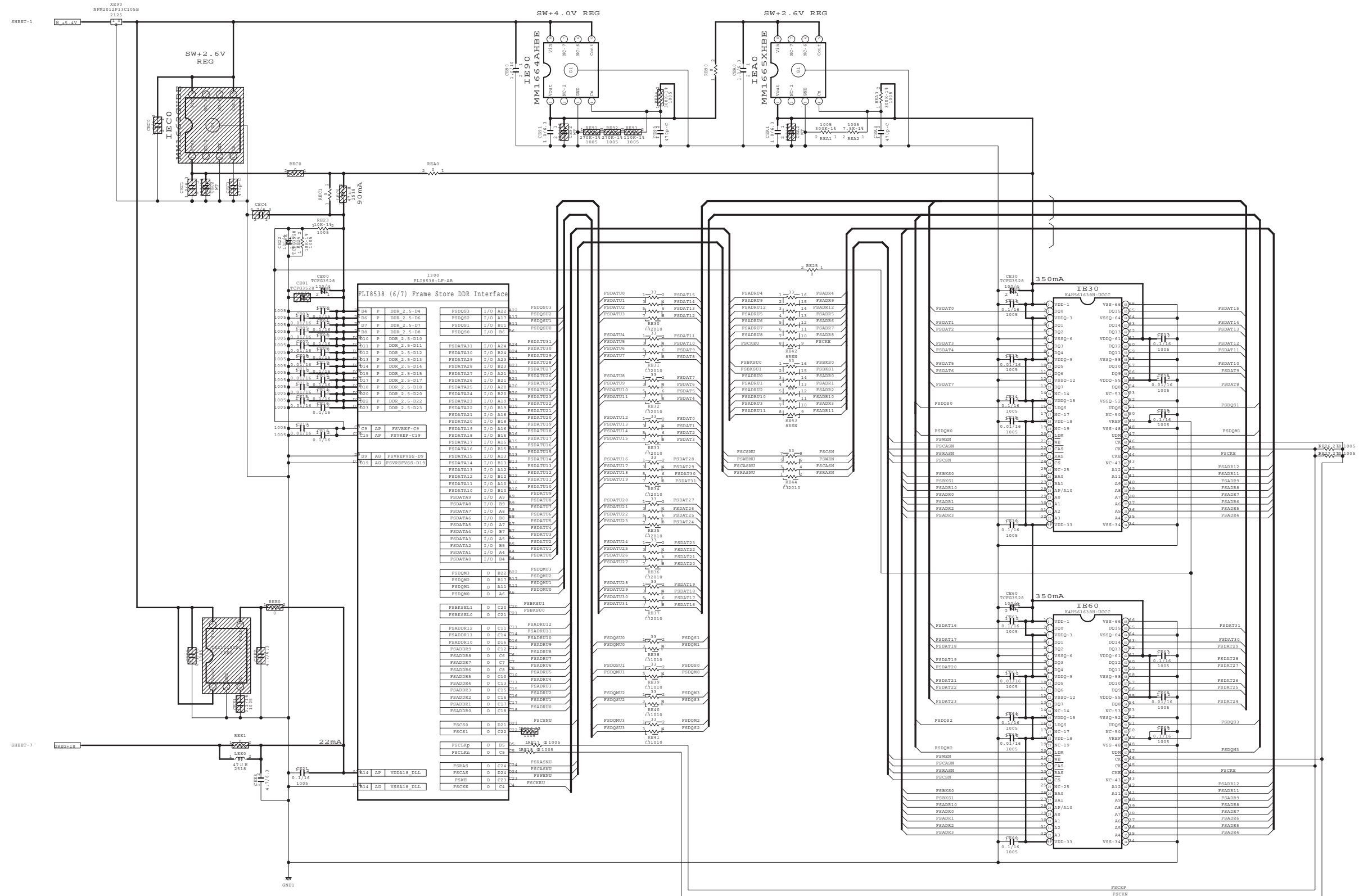




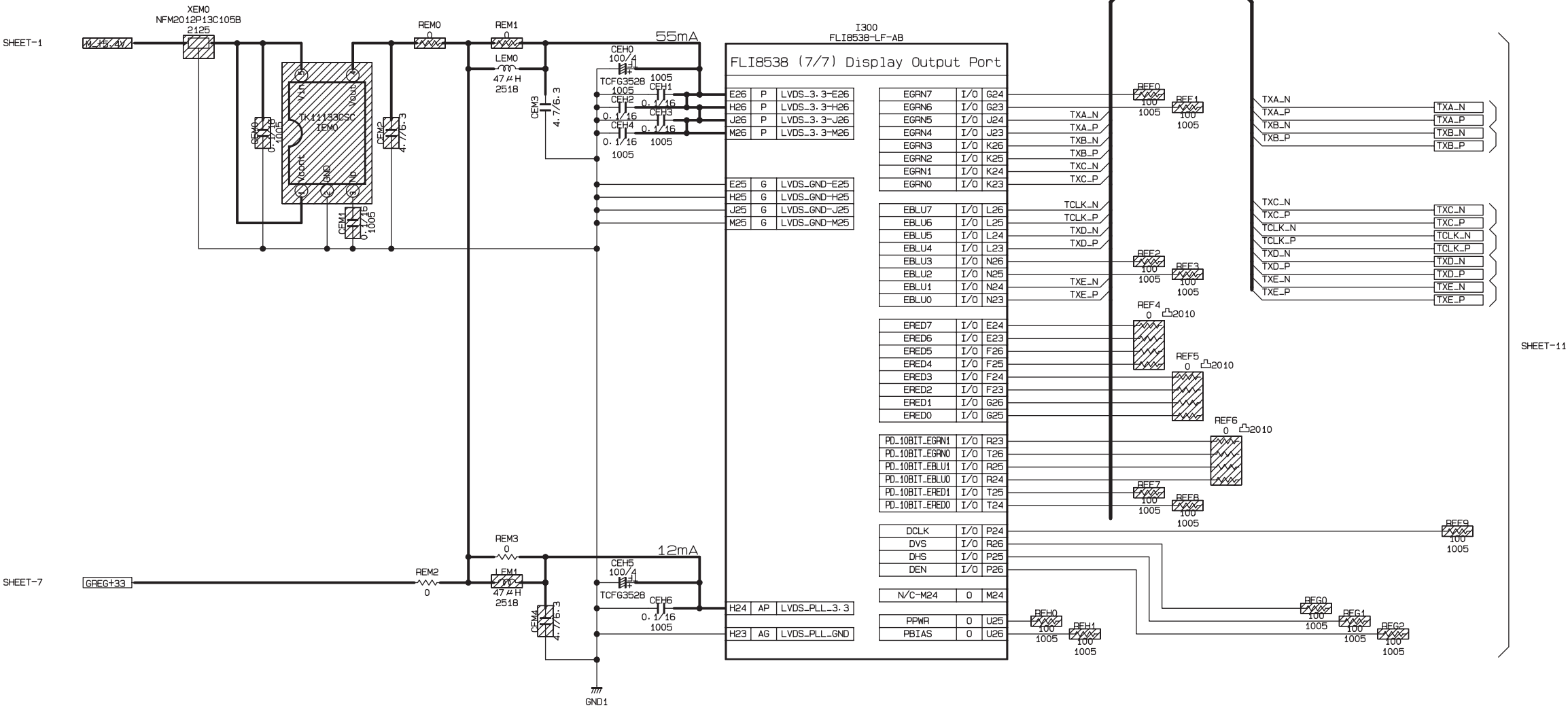


PWB assembly MAIN 8 (FW1)

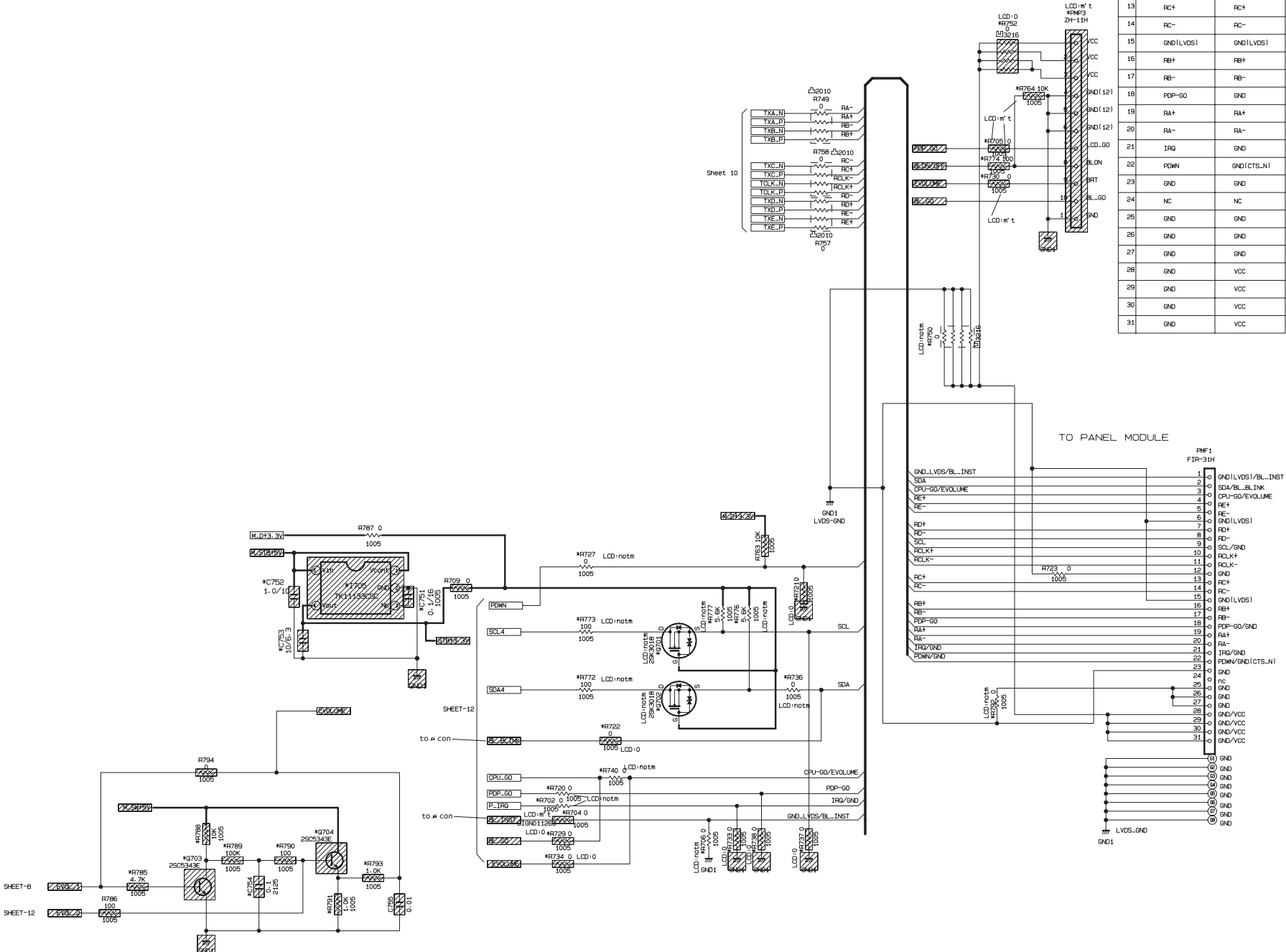
50PD9800TA (FW1)



PWB assembly MAIN 9 (FW1)

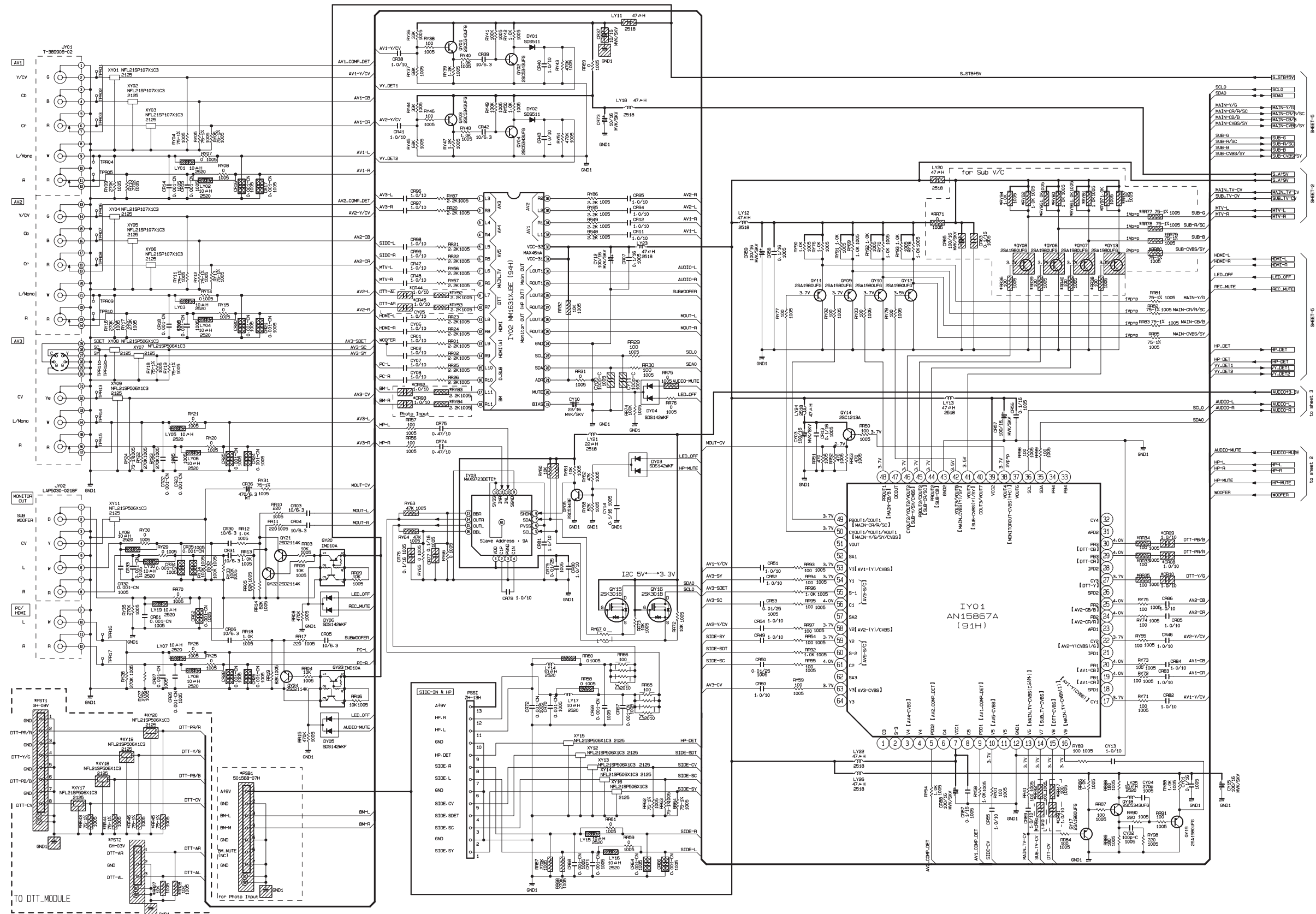


Z702 Pin Position		
	PDP	LCD
1	GND(LVDS)	
2	SDA	
3	CPU-GO	
4	RE+	RE+
5	RE-	RE-
6	GND(LVDS)	GND(LVDS)
7	RD+	RD+
8	RD-	RD-
9	SCL	GND
10	RCLK+	RCLK+
11	RCLK-	RCLK-
12	GND	GND
13	RC+	RC+
14	RC-	RC-
15	GND(LVDS)	GND(LVDS)
16	RB+	RB+
17	RB-	RB-
18	PDP-GO	GND
19	RA+	RA+
20	RA-	RA-
21	IRQ	GND
22	PDOWN	GND(CTS.N)
23	GND	GND
24	NC	NC
25	GND	GND
26	GND	GND
27	GND	GND
28	GND	VCC
29	GND	VCC
30	GND	VCC
31	GND	VCC

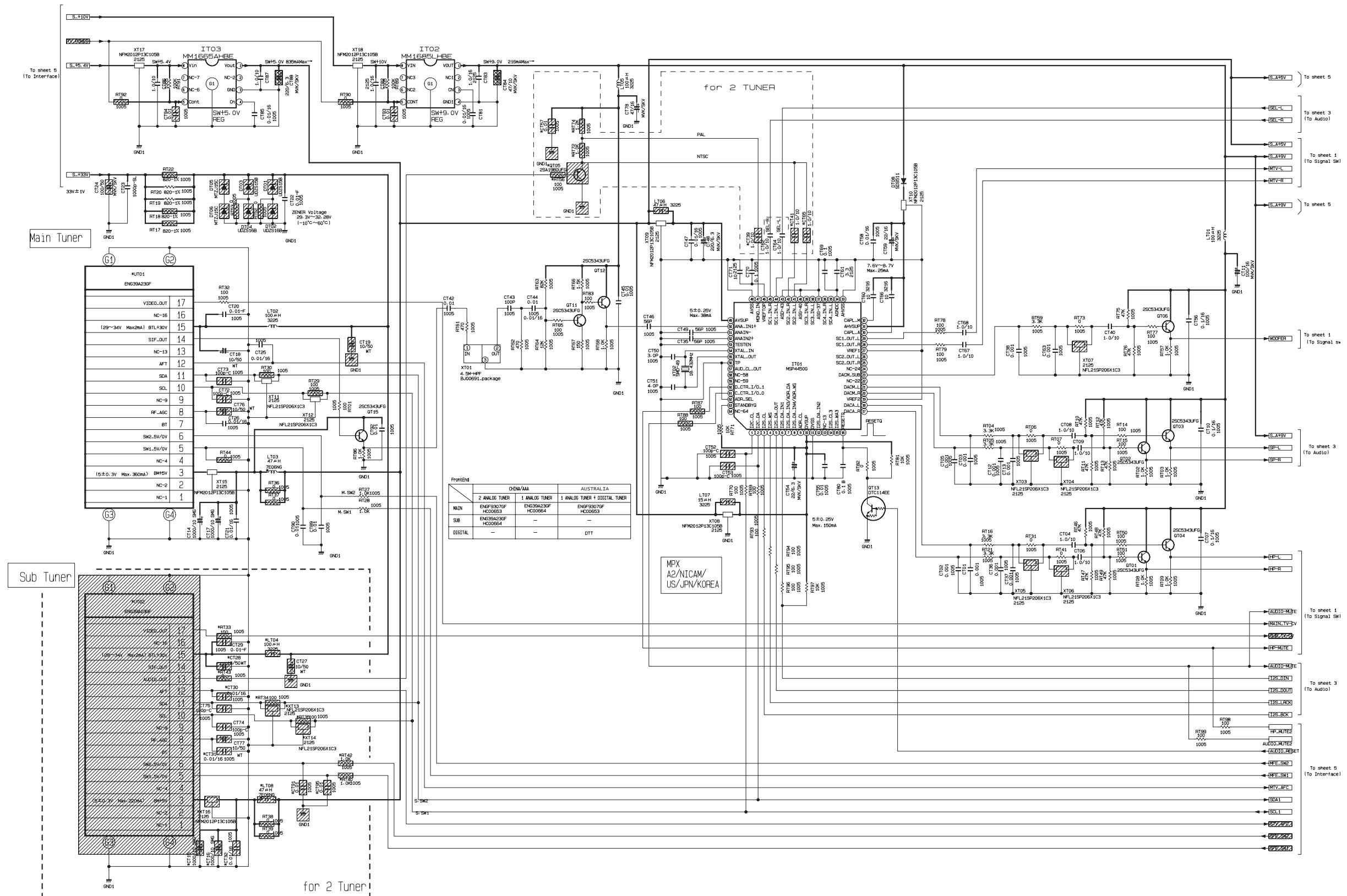


PWB assembly MAIN 11 (FW1)

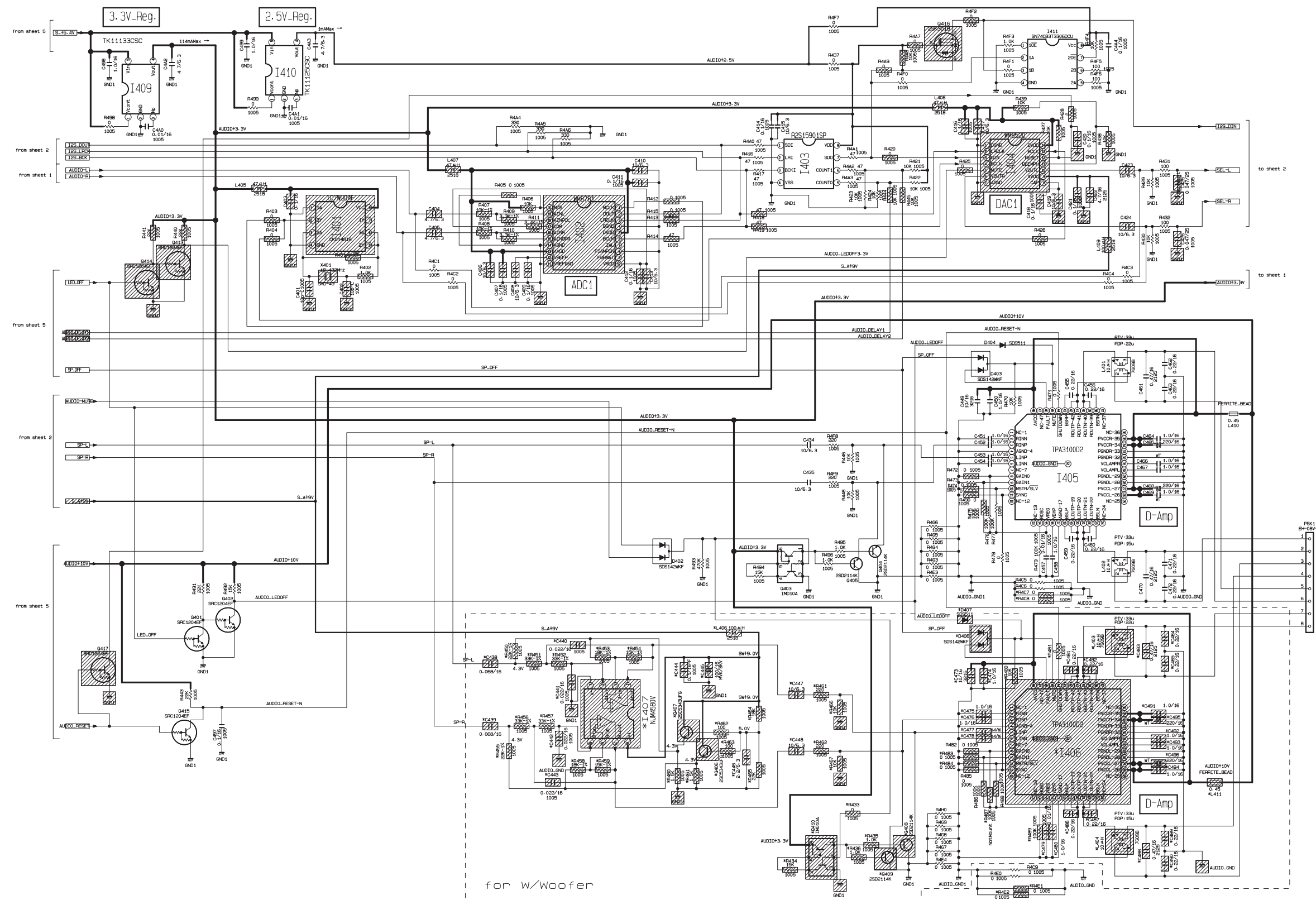




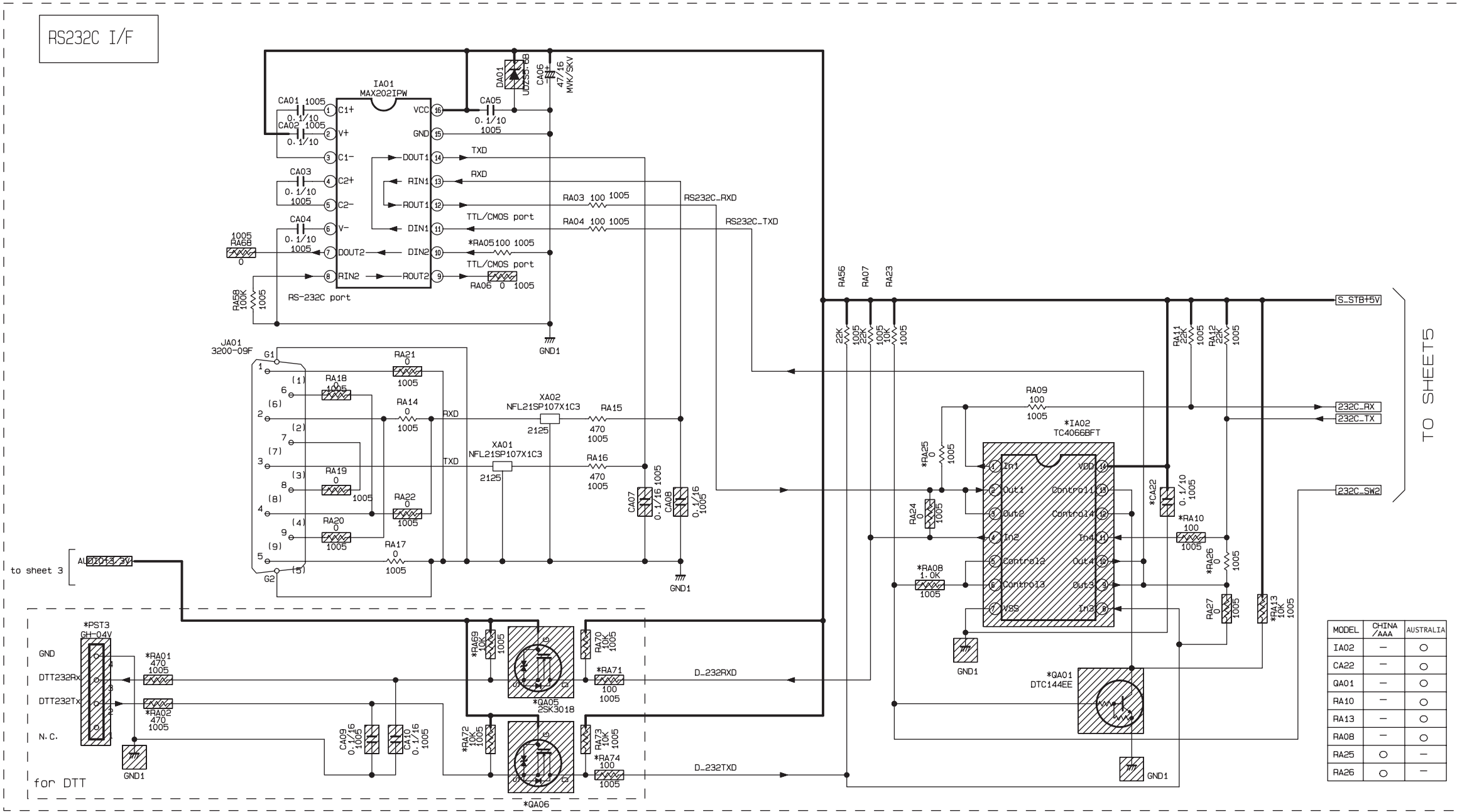
PWB assembly SUB 1(JACK/VIDEO SW) (FW1)



PWB assembly SUB 2(TUNER/A2 NICAM) (FW1)

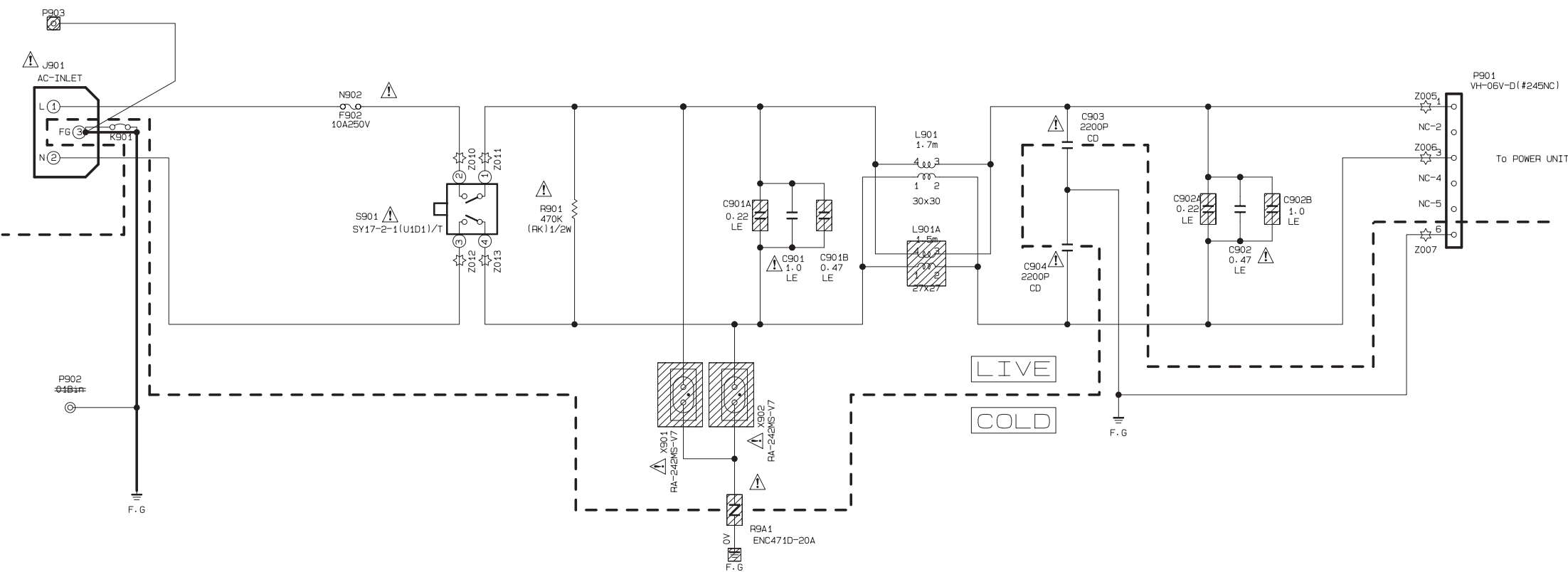


PWB assembly SUB 3(AUDIO SW/ADC/DAC) (FW1)

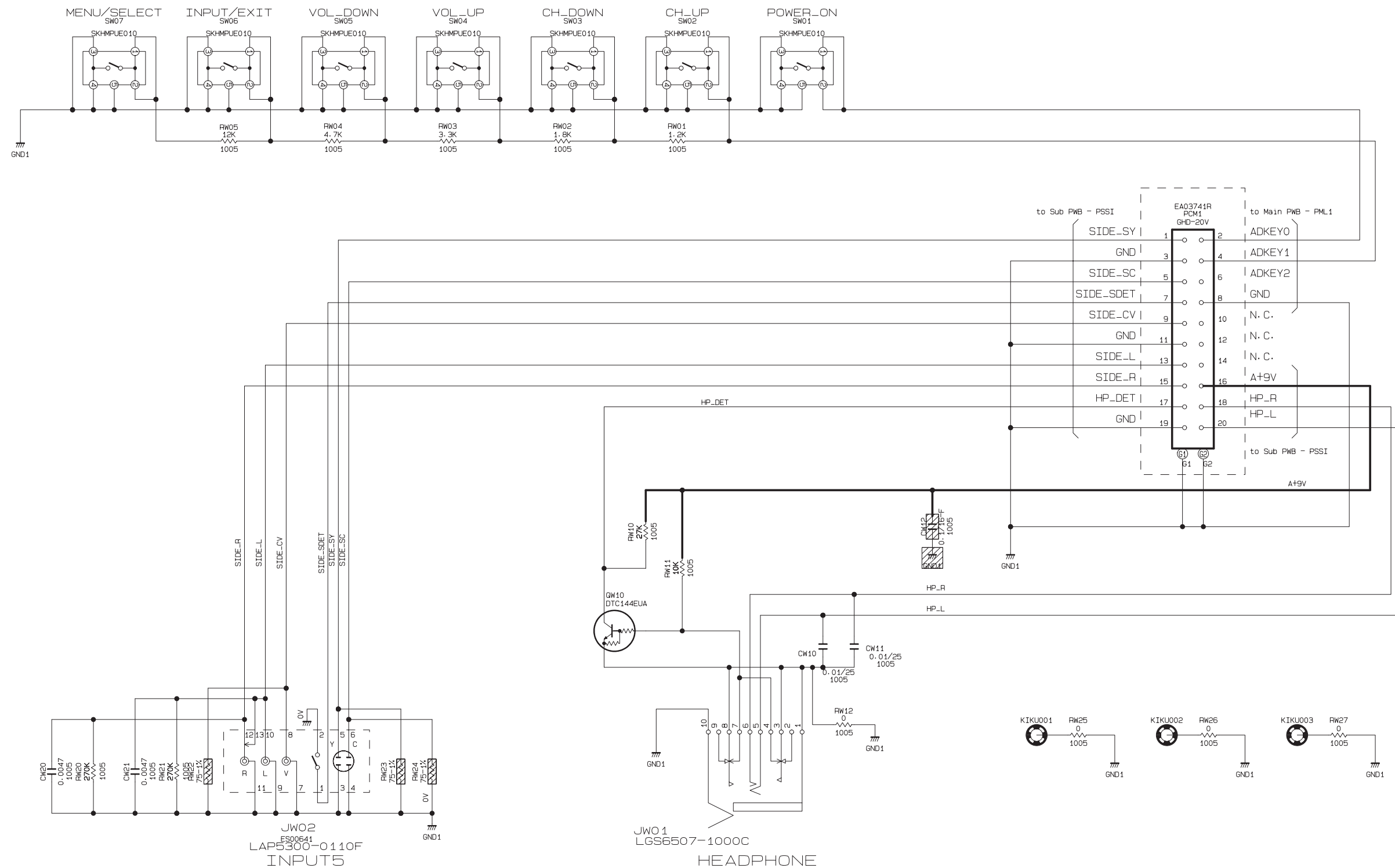


PWB assembly SUB 4(RS232C I/F) (FW1)

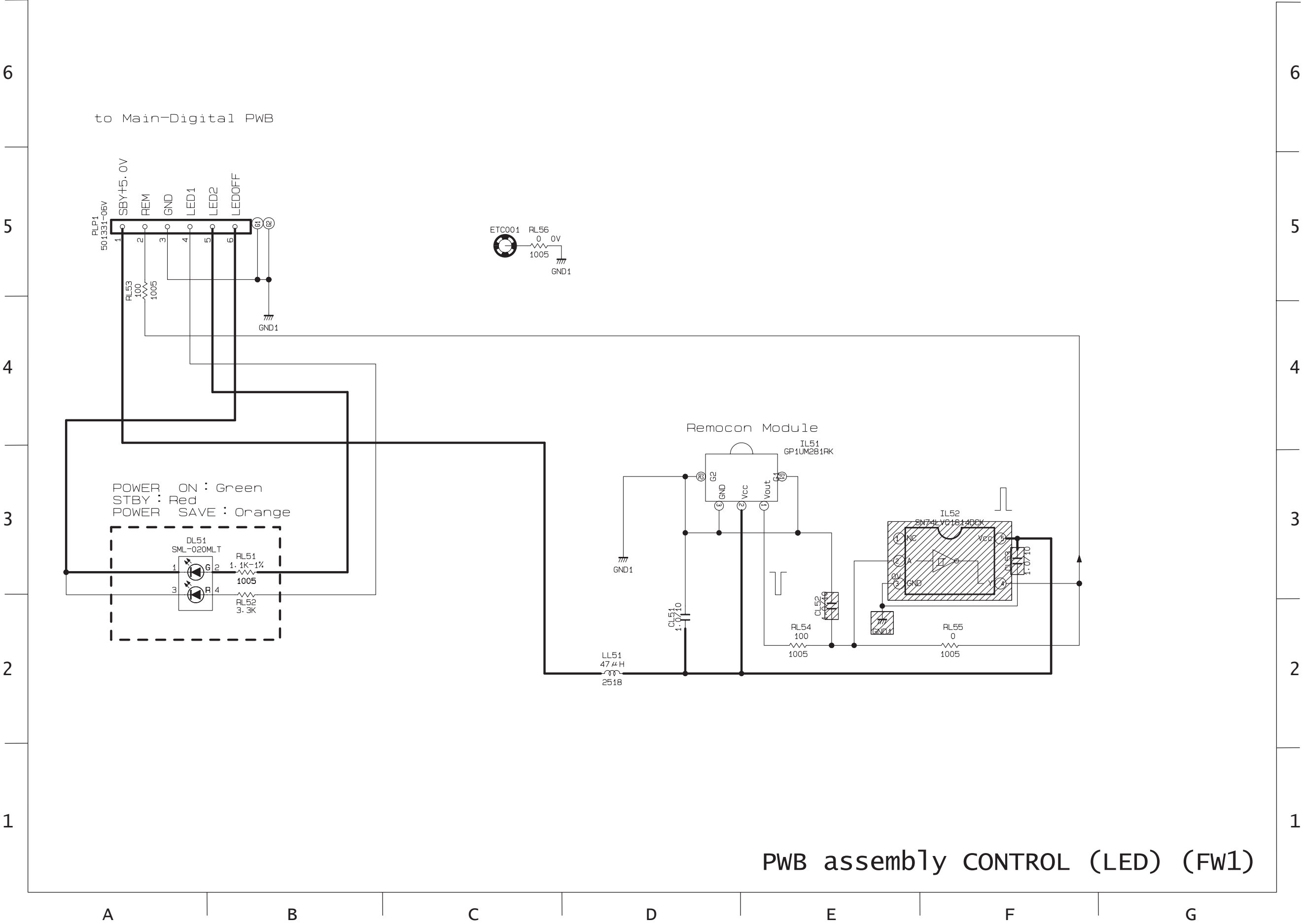




PWB assembly FILTER (FW1)



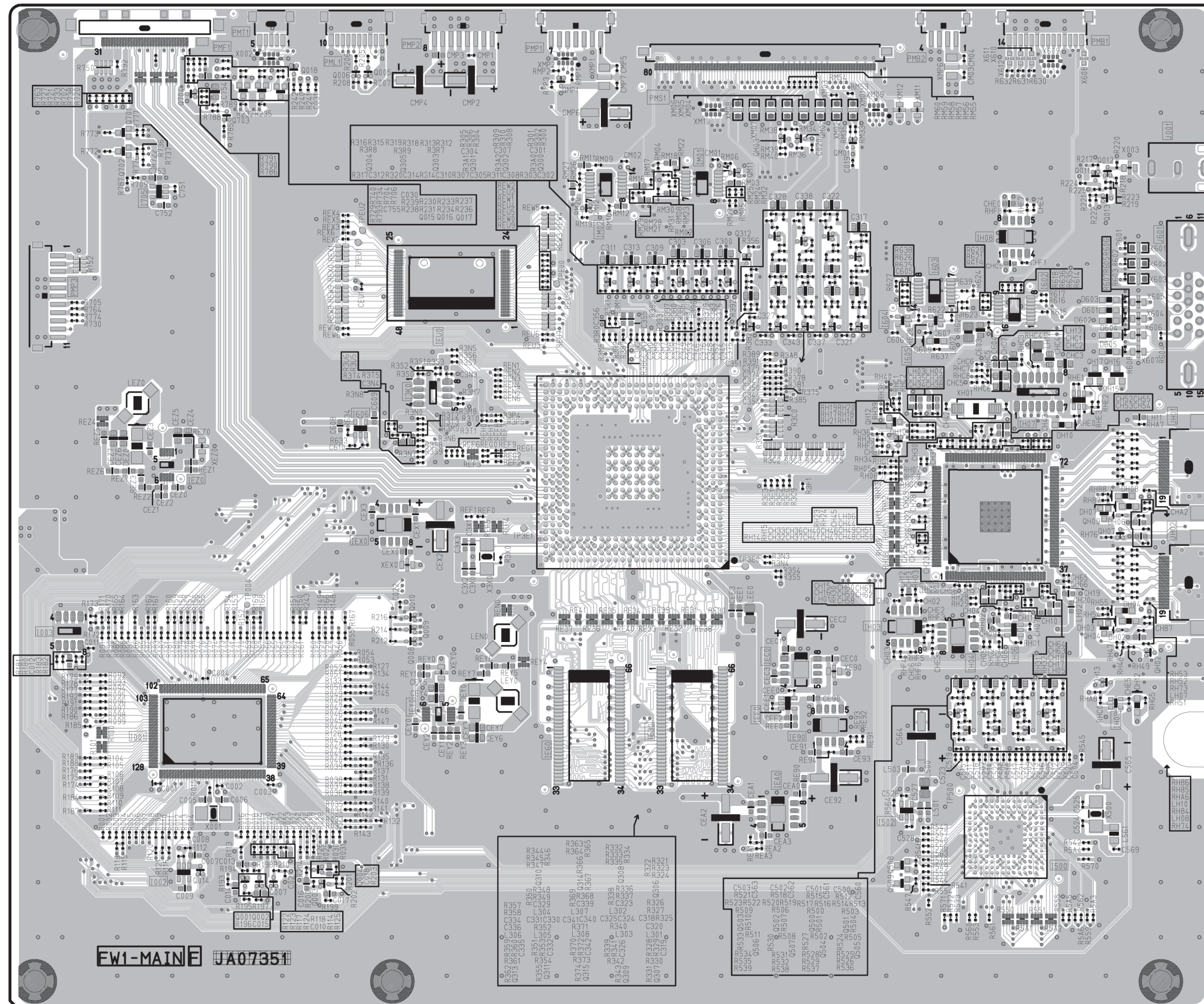
PWB assembly CONTROL (Front Input) (FW1)

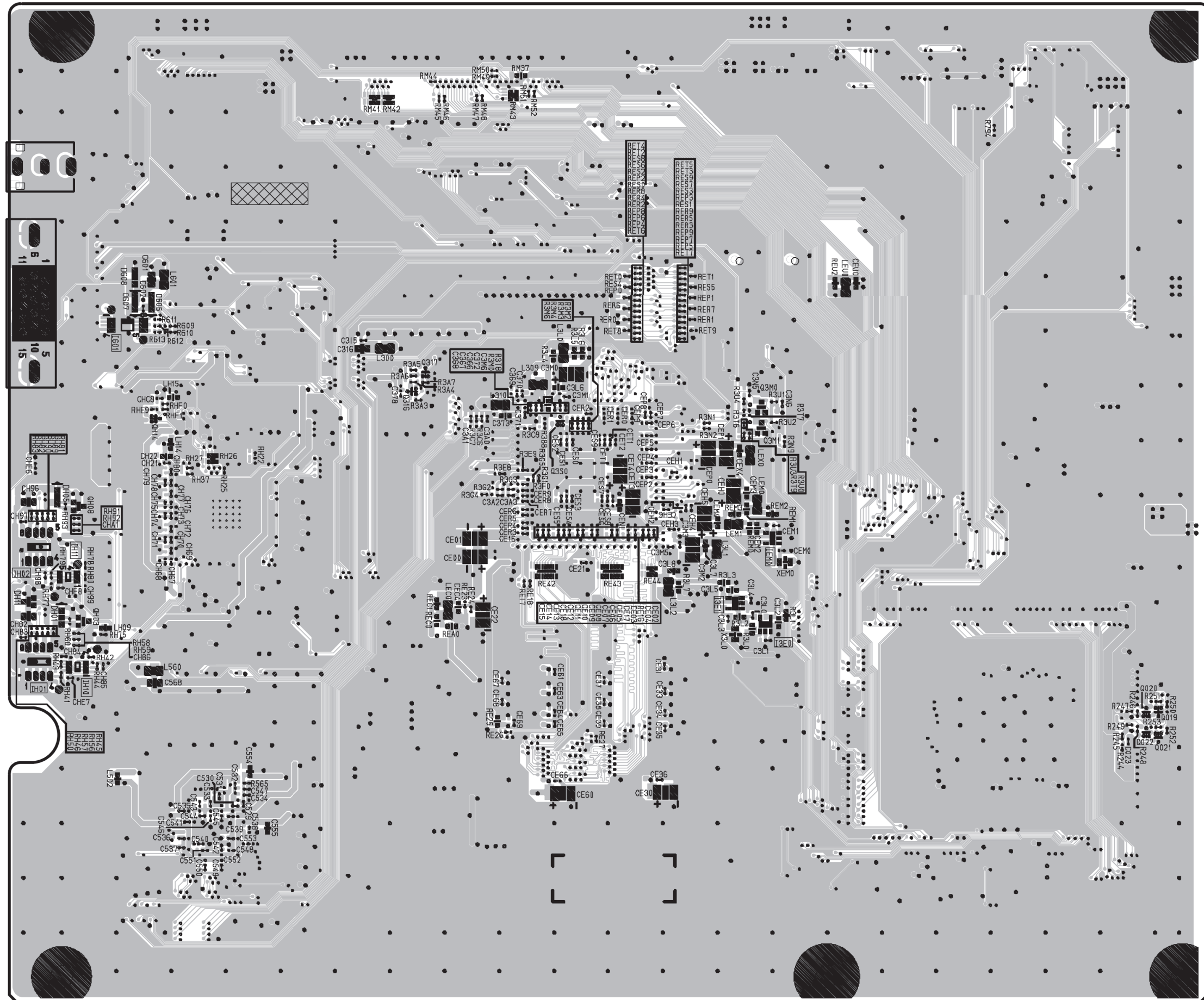


PWB assembly CONTROL (LED) (FW1)

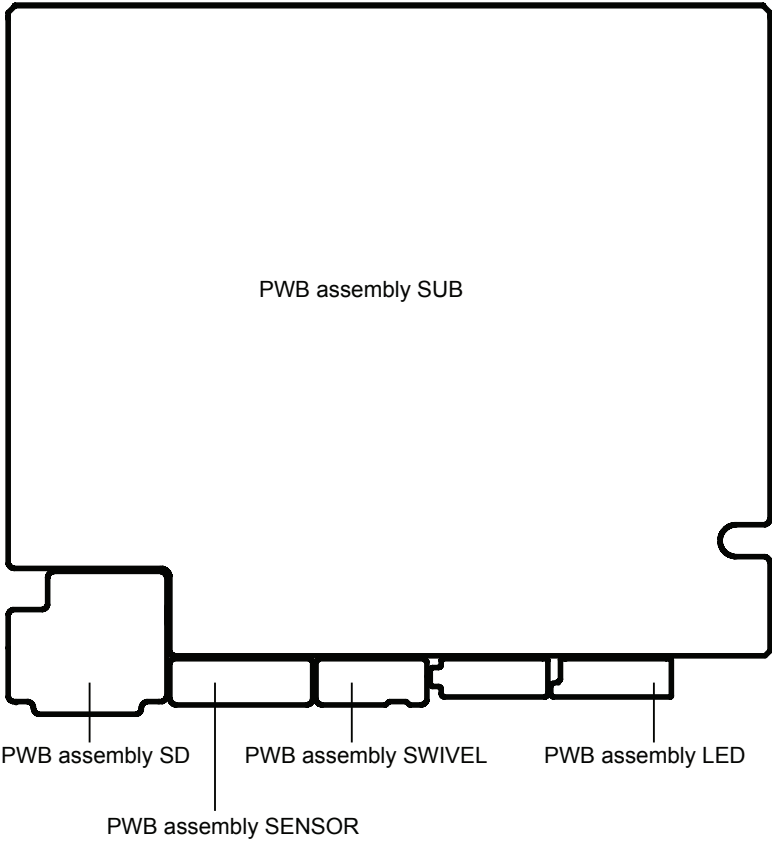
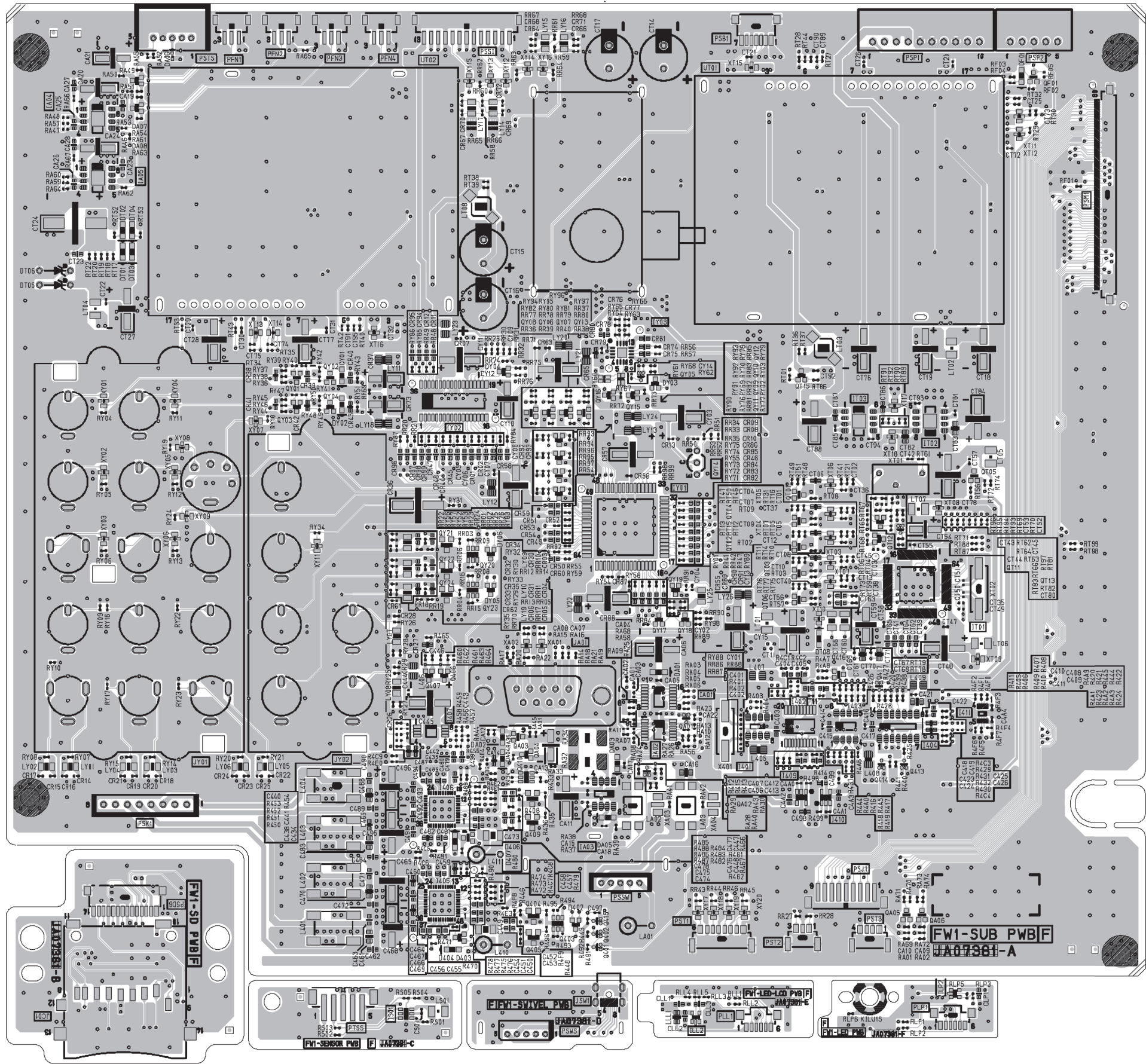
10. Printed wiring board diagram

PWB assembly MAIN (side-A)

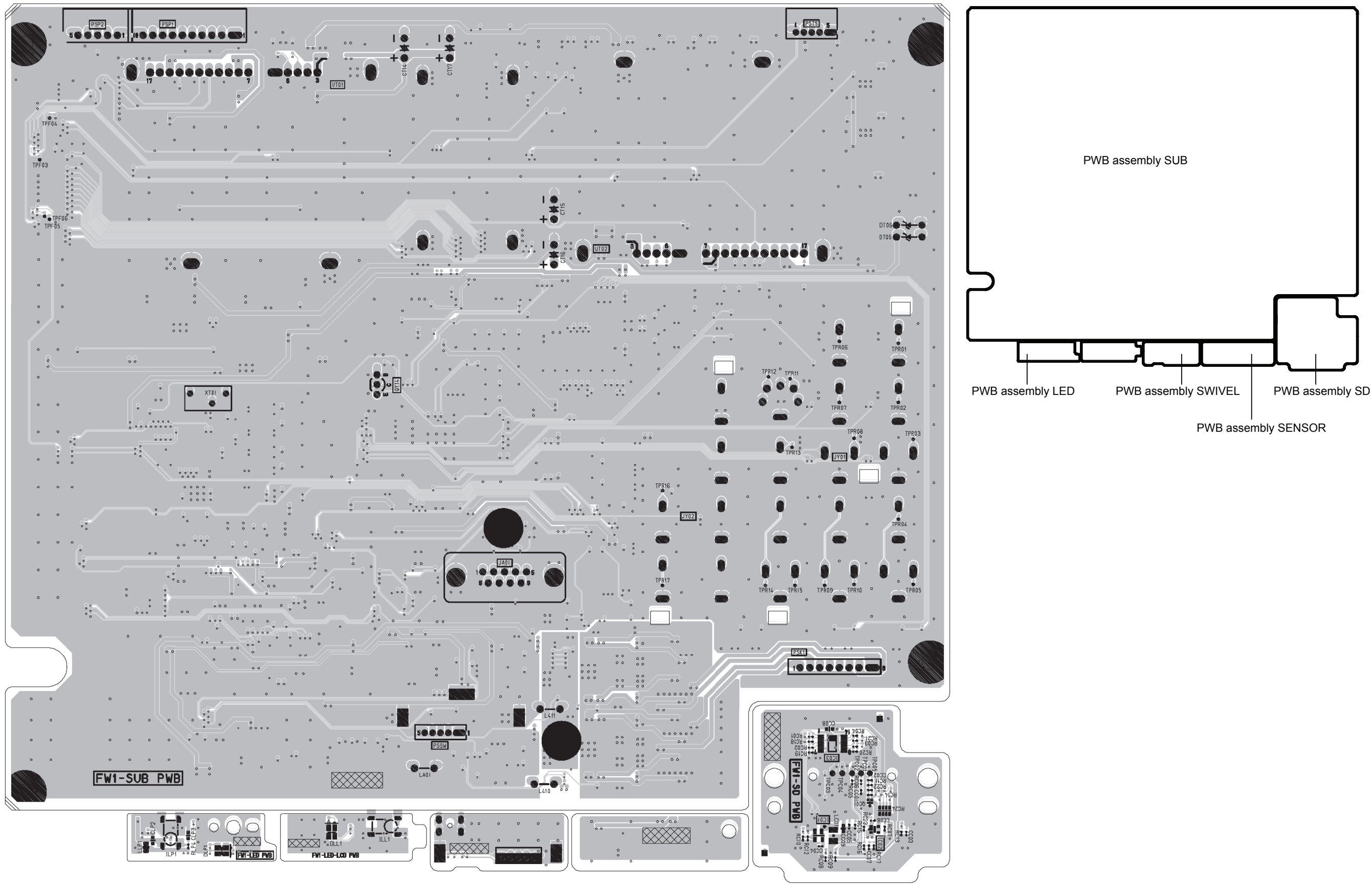




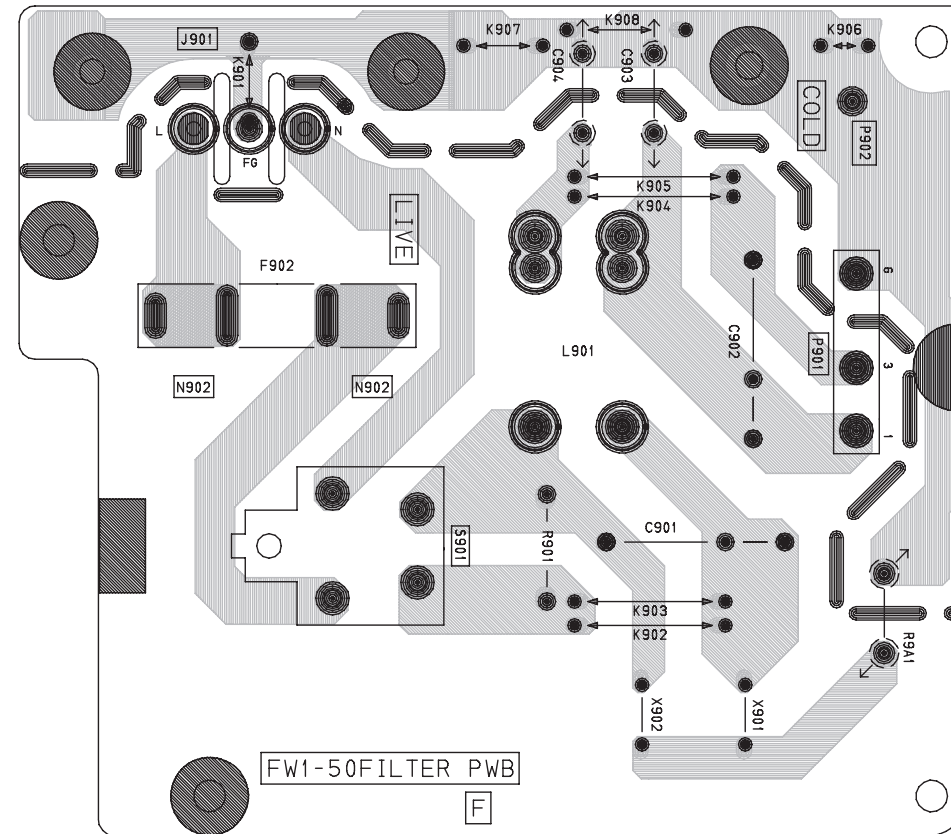
PWB assembly SUB (side-A)



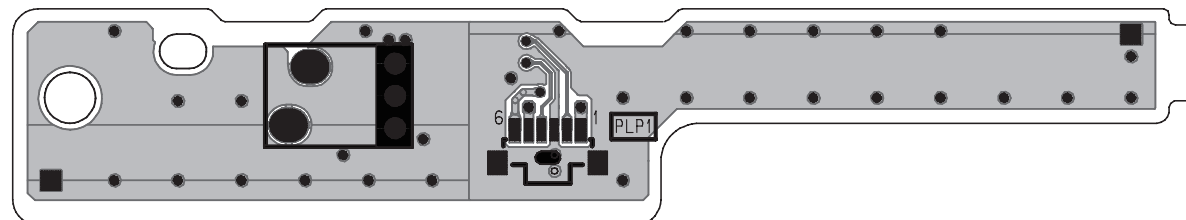
PWB assembly SUB (side-B)



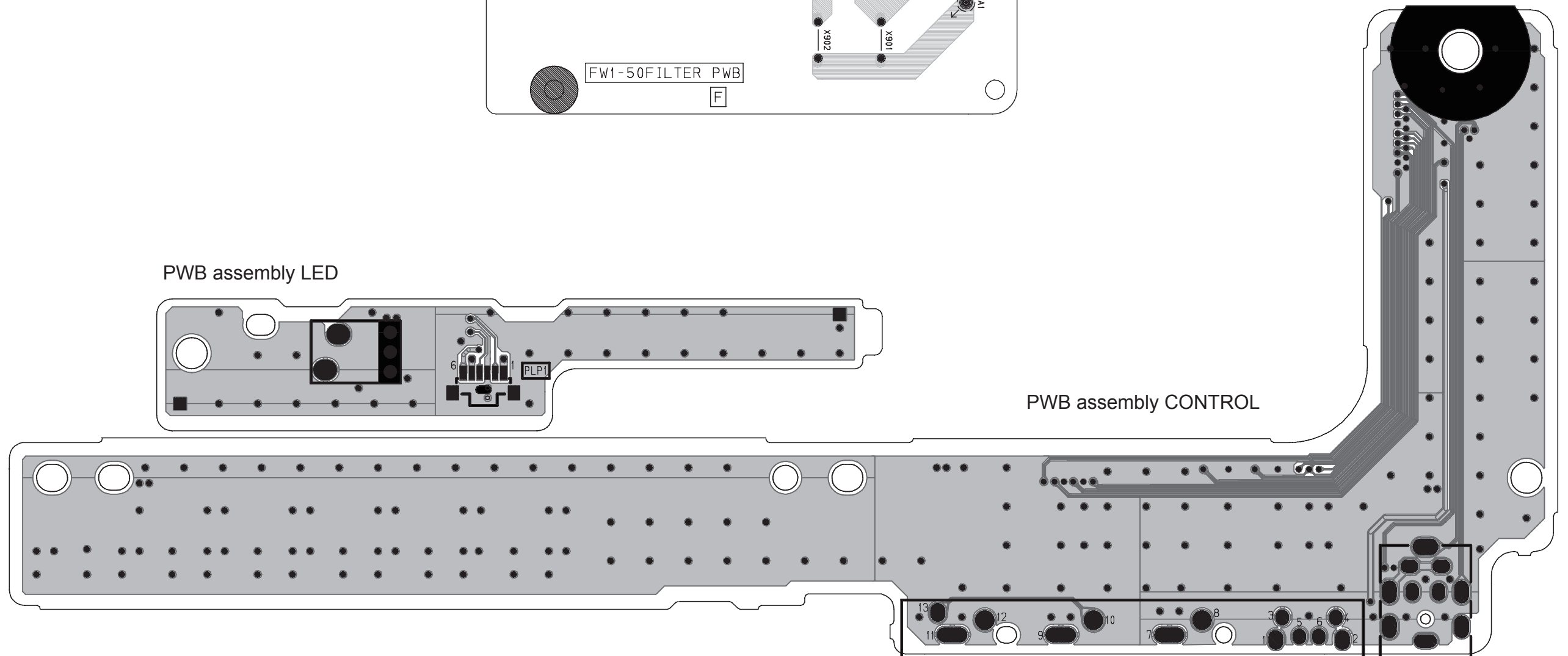
PWB assembly FILTER



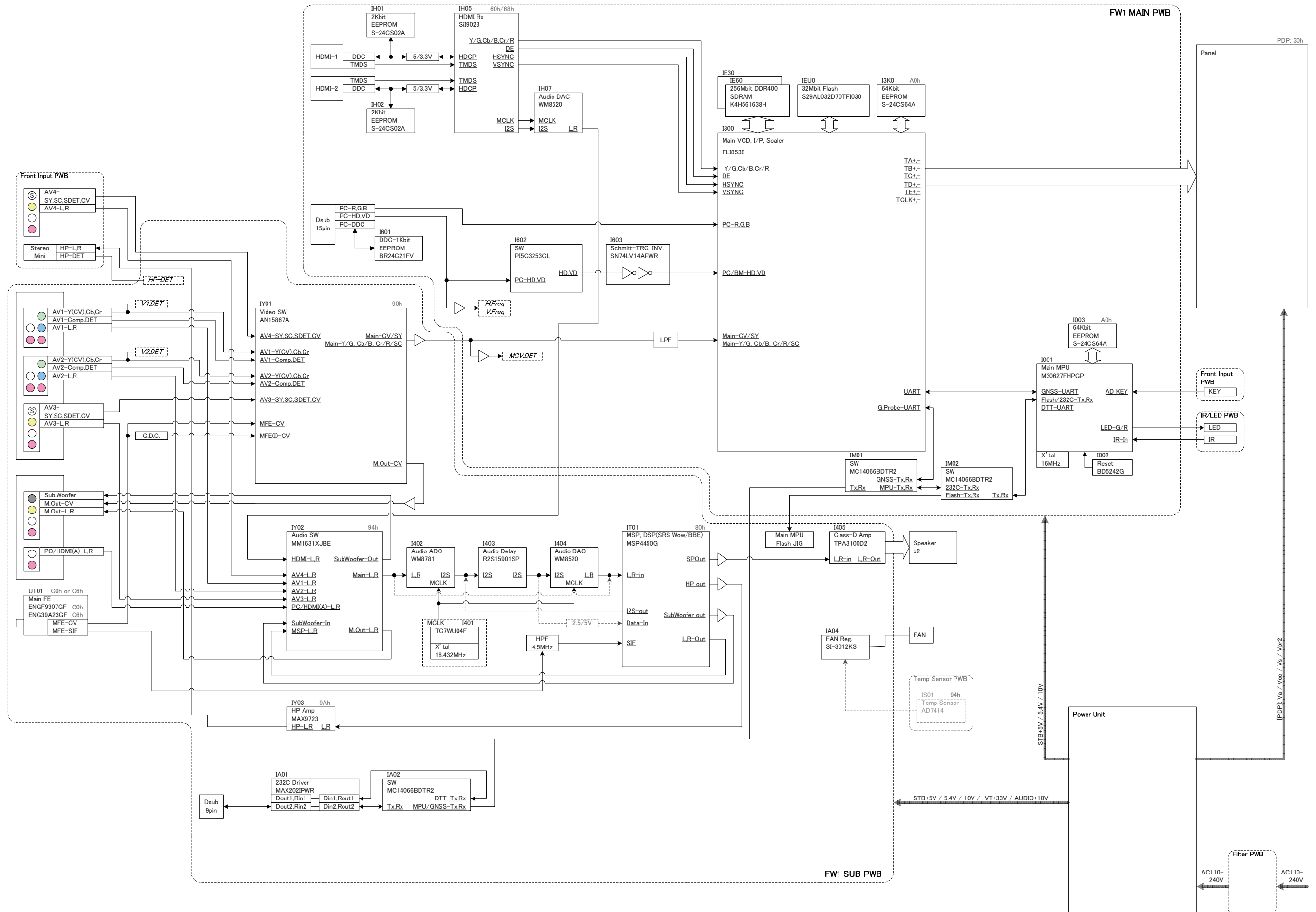
PWB assembly LED



PWB assembly CONTROL



11. Block diagram

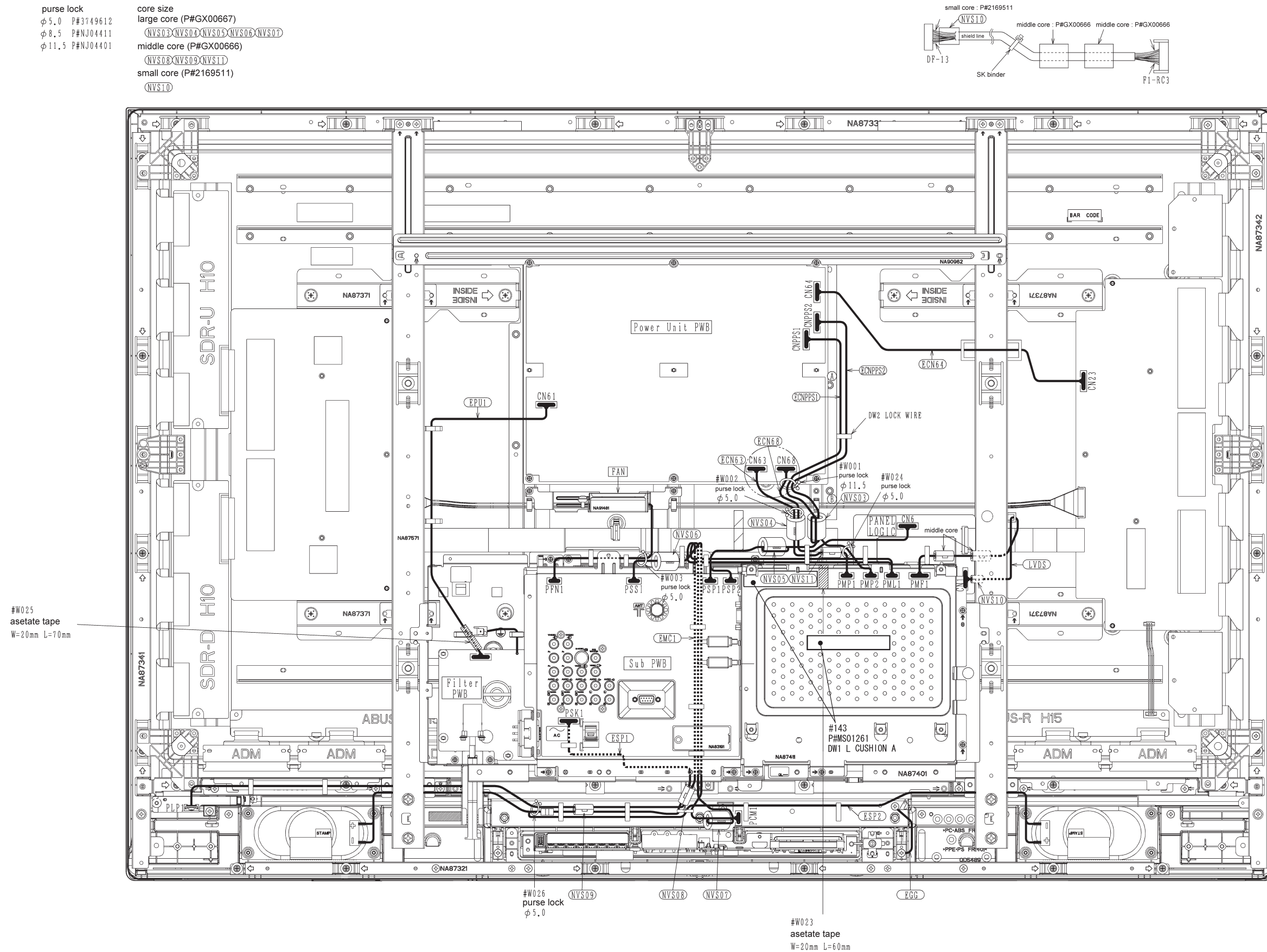


12. Connection diagram

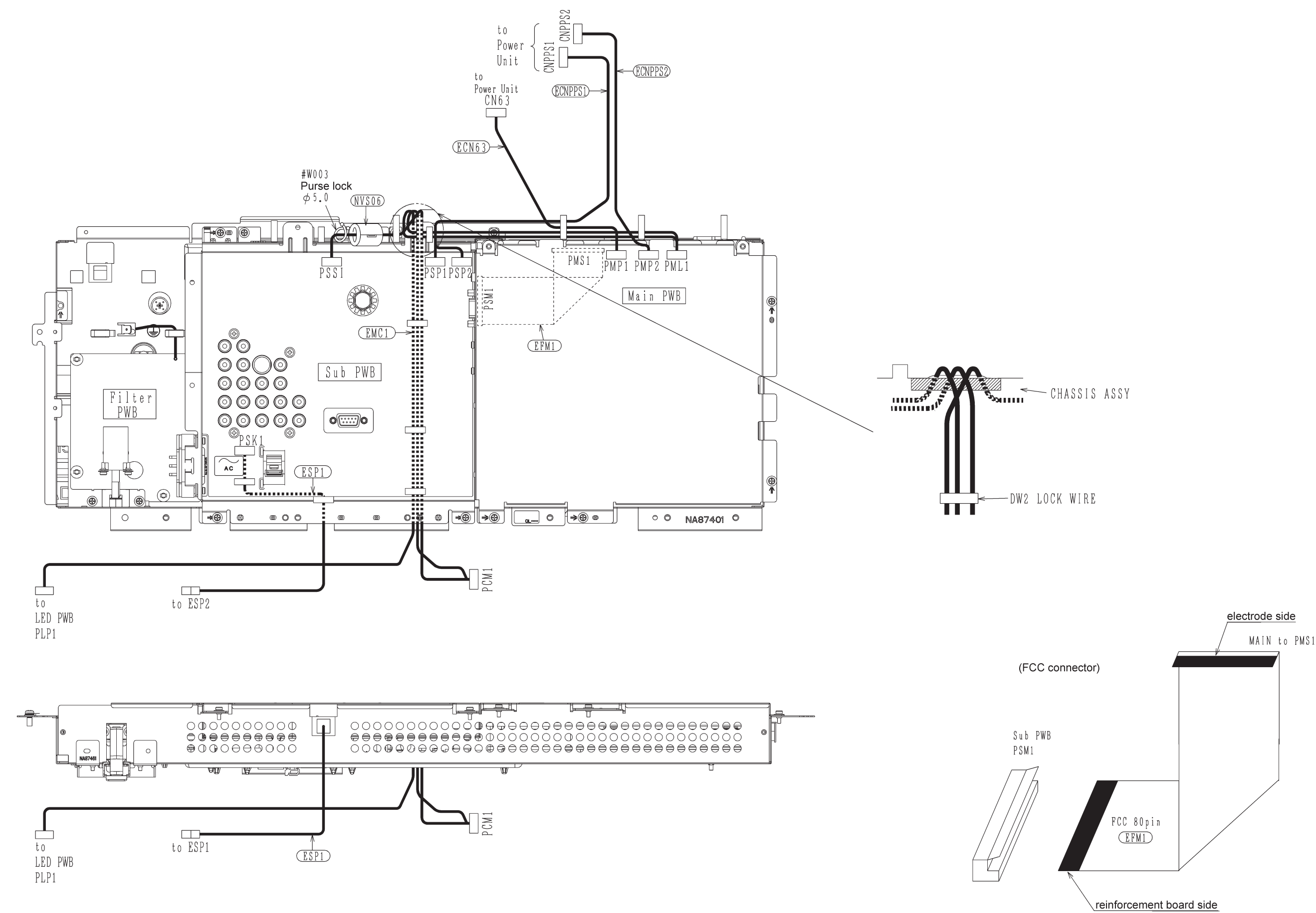


13. Wiring diagram

[50PD9800TA 1/2]

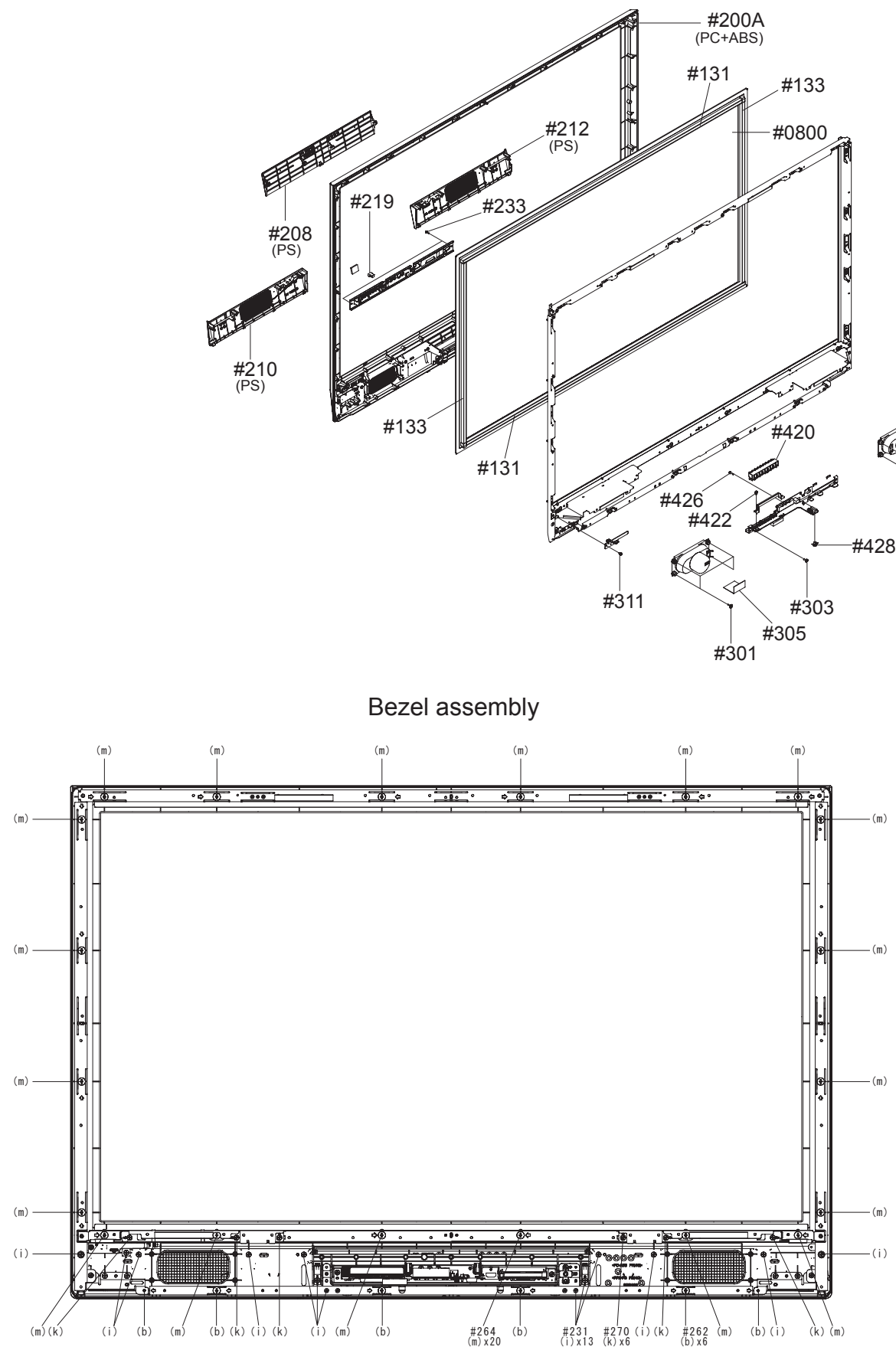


[50PD9800TA 2/2]

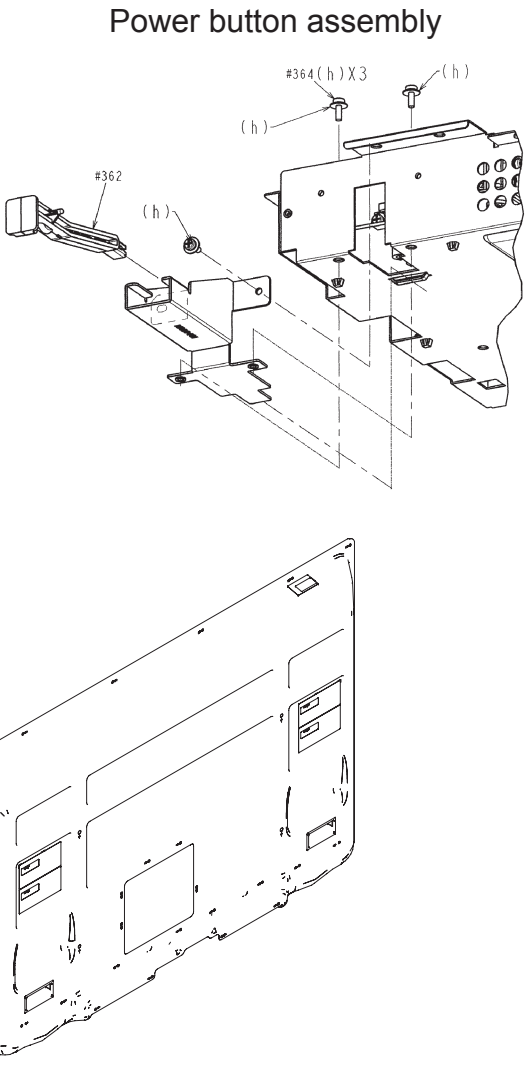
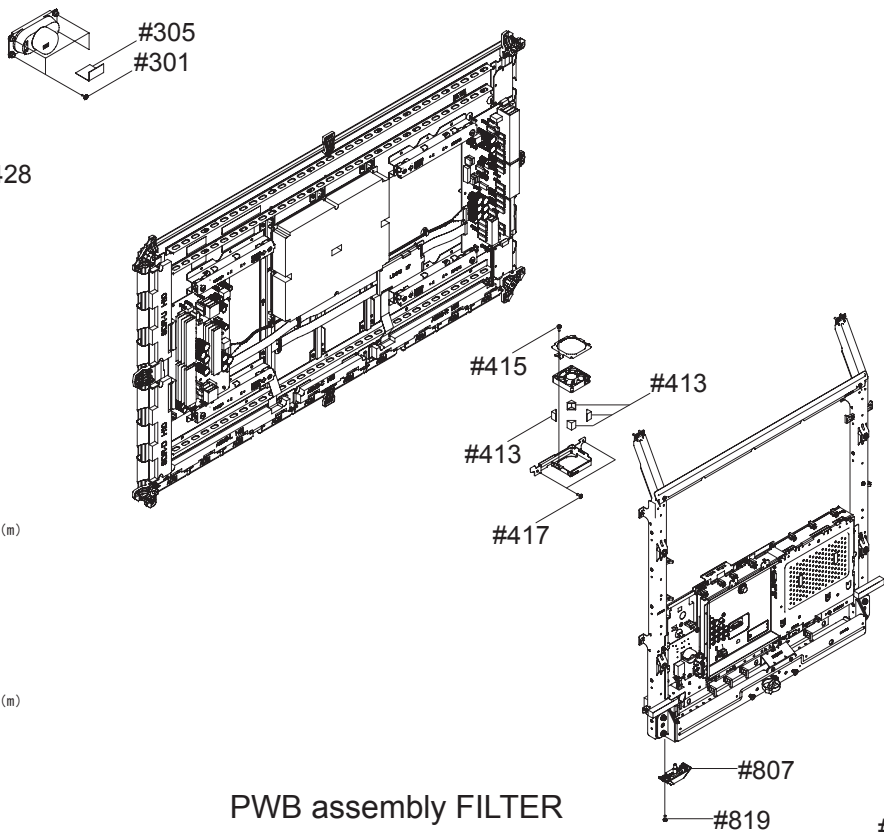


14. Disassembly diagram

[50PD9800 Disassembly Diagram 1]

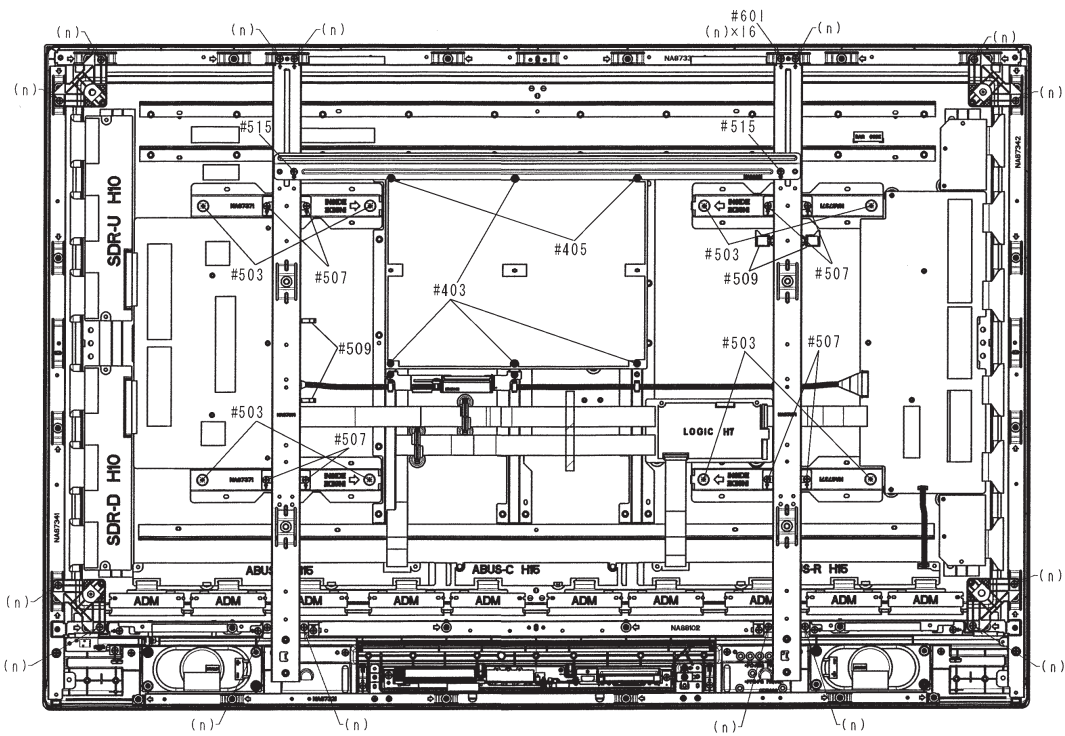


code	Material
ABS	Acrylonitrile Butadine Styrene
Fe	Steel
PS	PolyStyrene
PC+ABS	PolyCarbonate + Acrylonitrile Butadine Styrene
AL	Aluminium

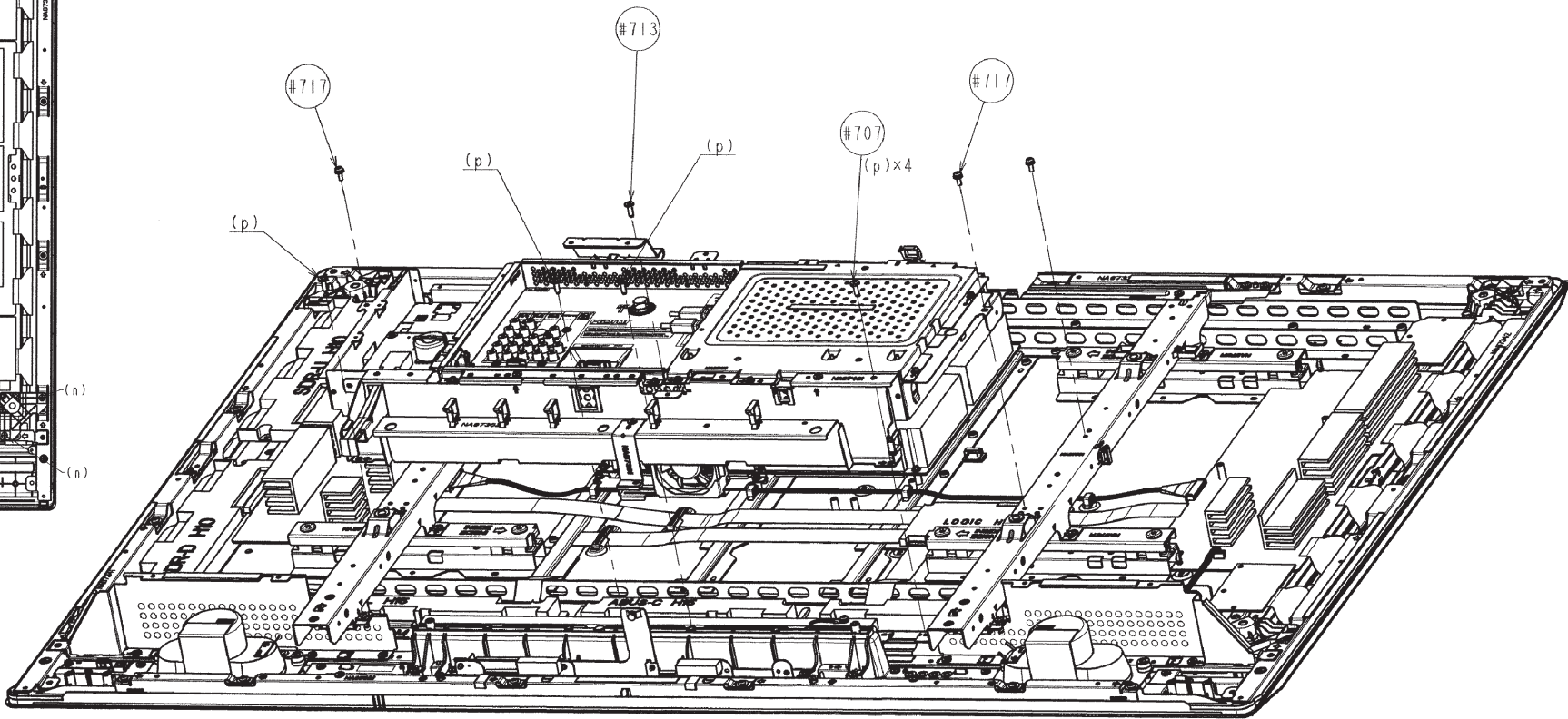


[50PD9800 Disassembly Diagram 2]

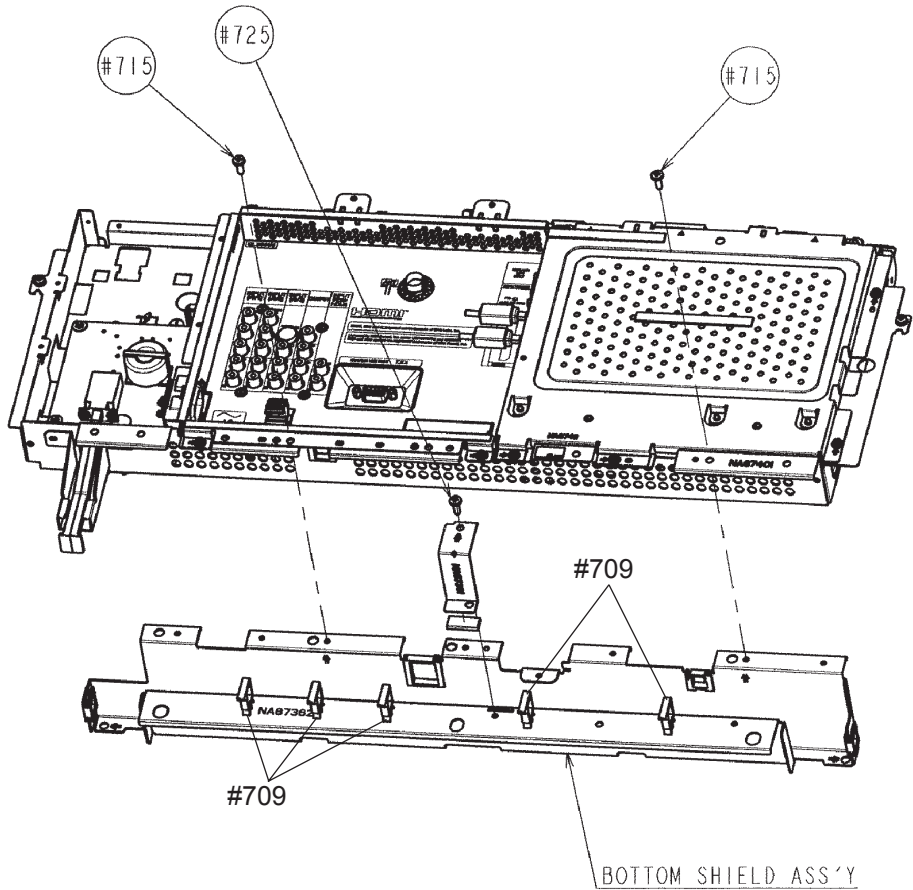
Chassis - 1



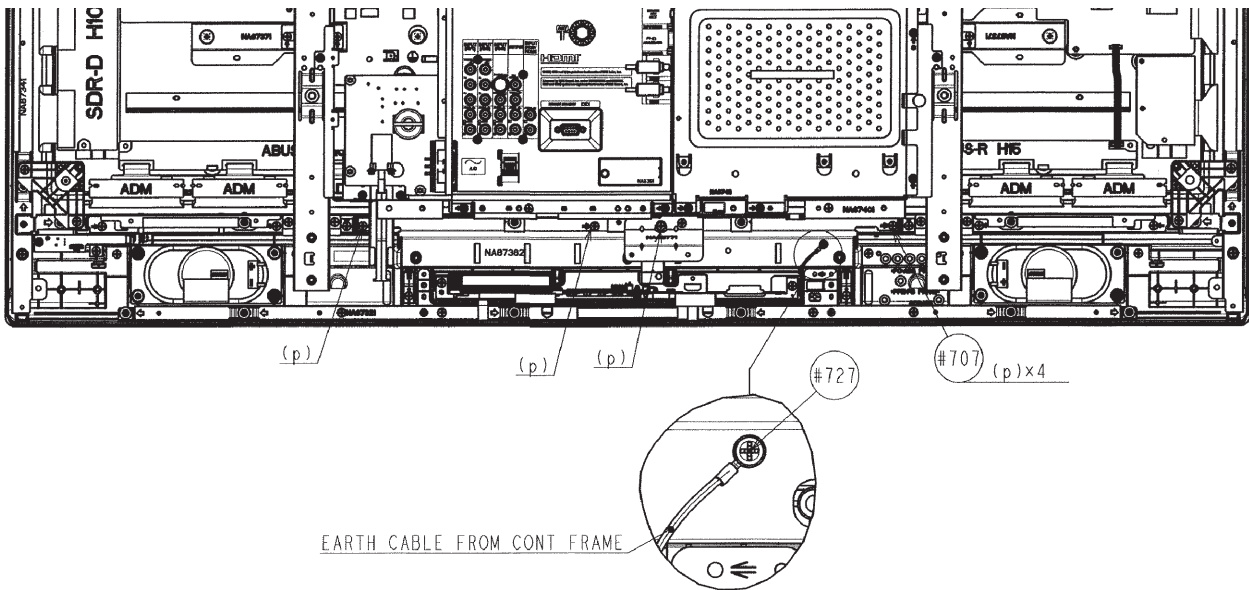
Chassis - 2



Chassis Unit

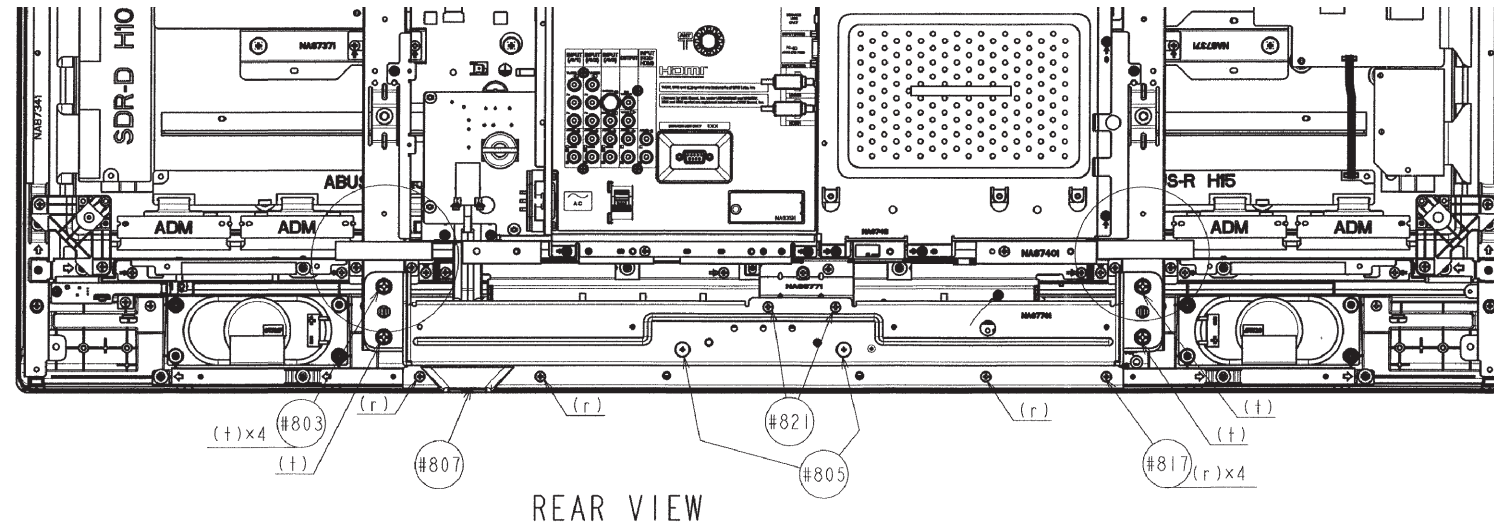


Chassis - 3



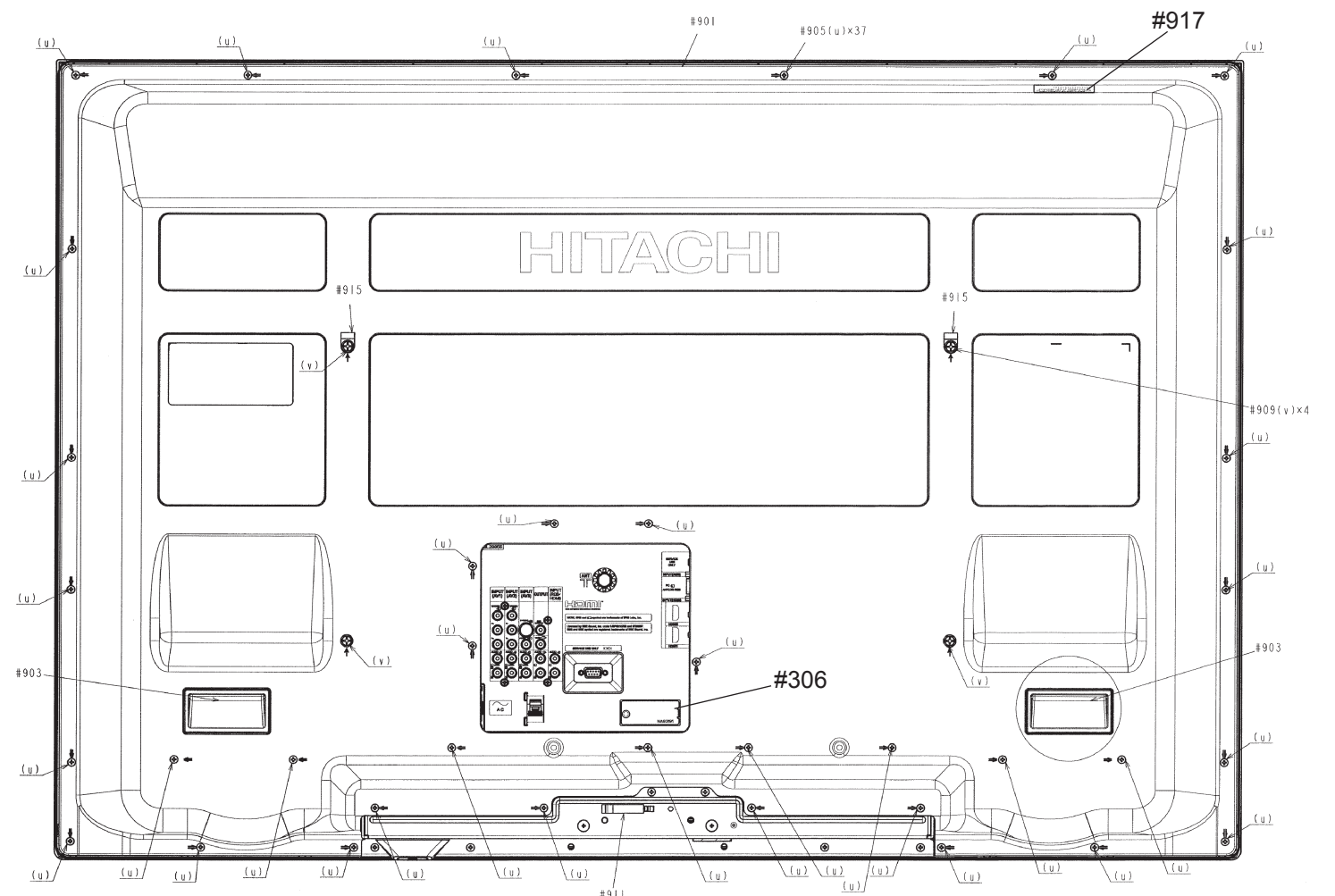
[50PD9800 Disassembly Diagram 3]

Chassis - 4



REAR VIEW

Backcover assembly



Positioning Pin

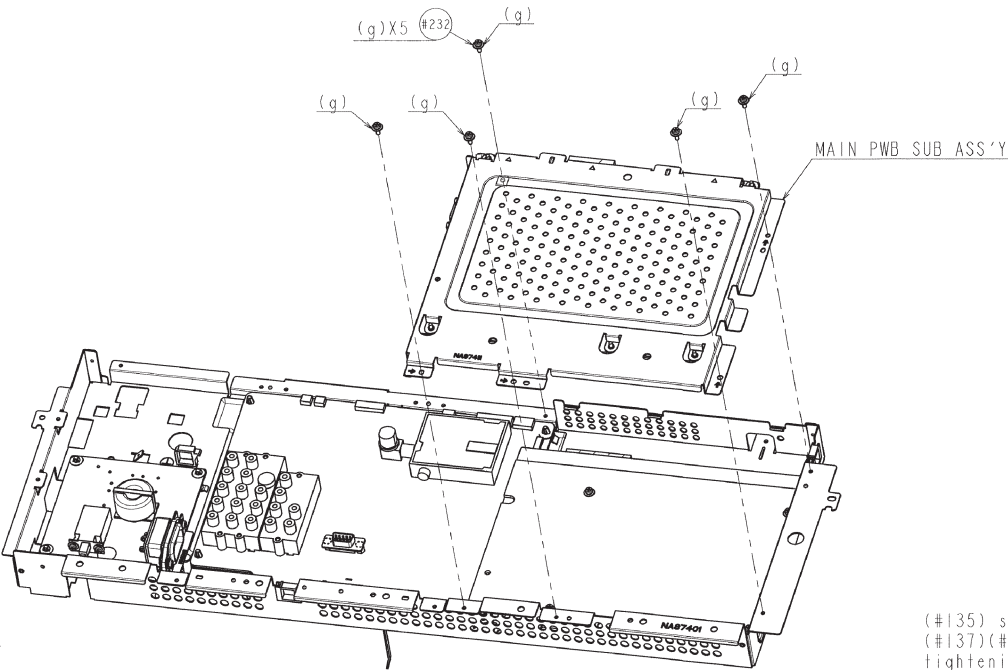
Be Careful not to injure flexible cables of PDP module.

CAUTION

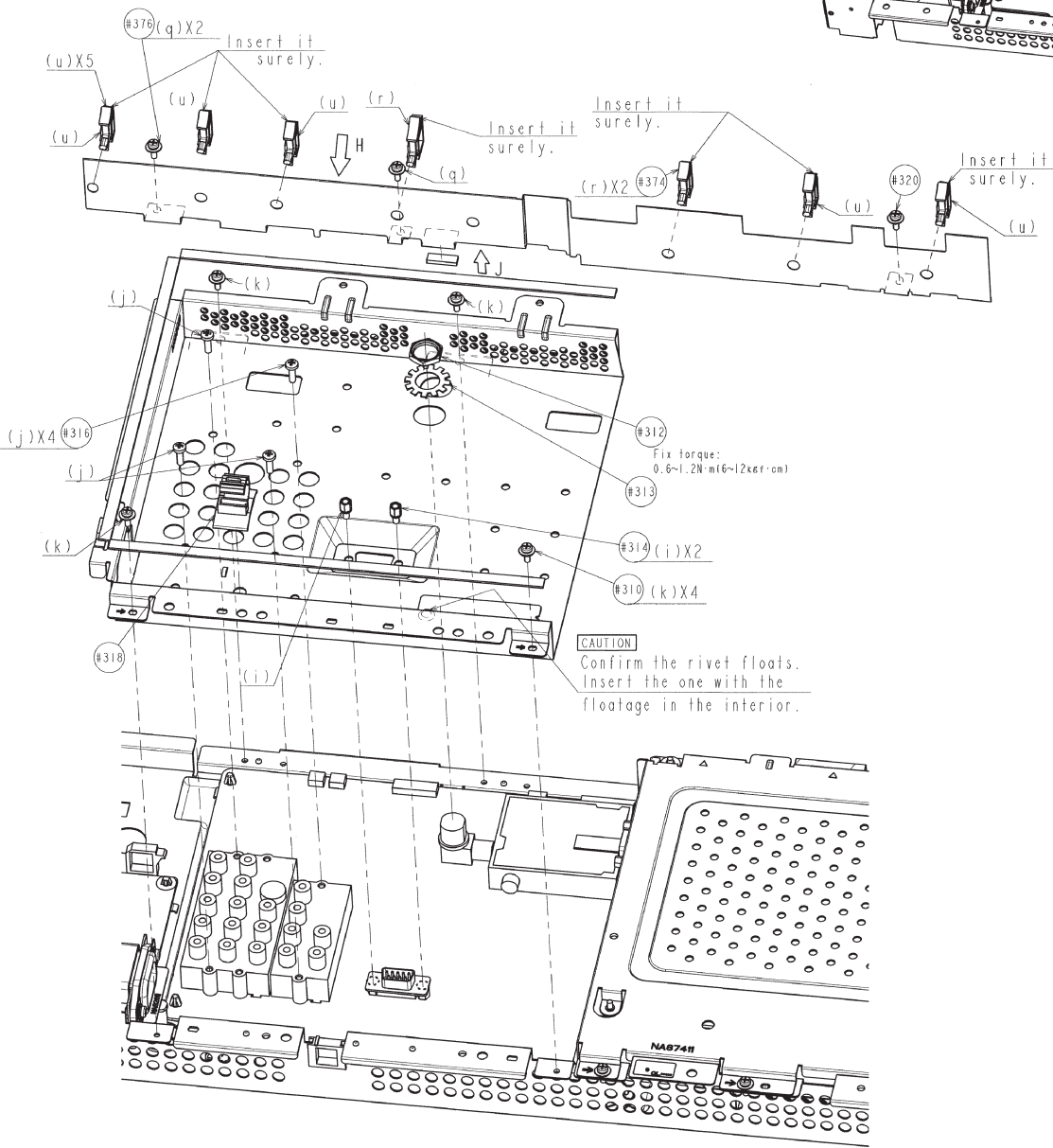
Panel assemble it as the figure in case of attachment based on the MAIN FRAME upper Positioning Pin.

[50PD9800 Disassembly Diagram 4]

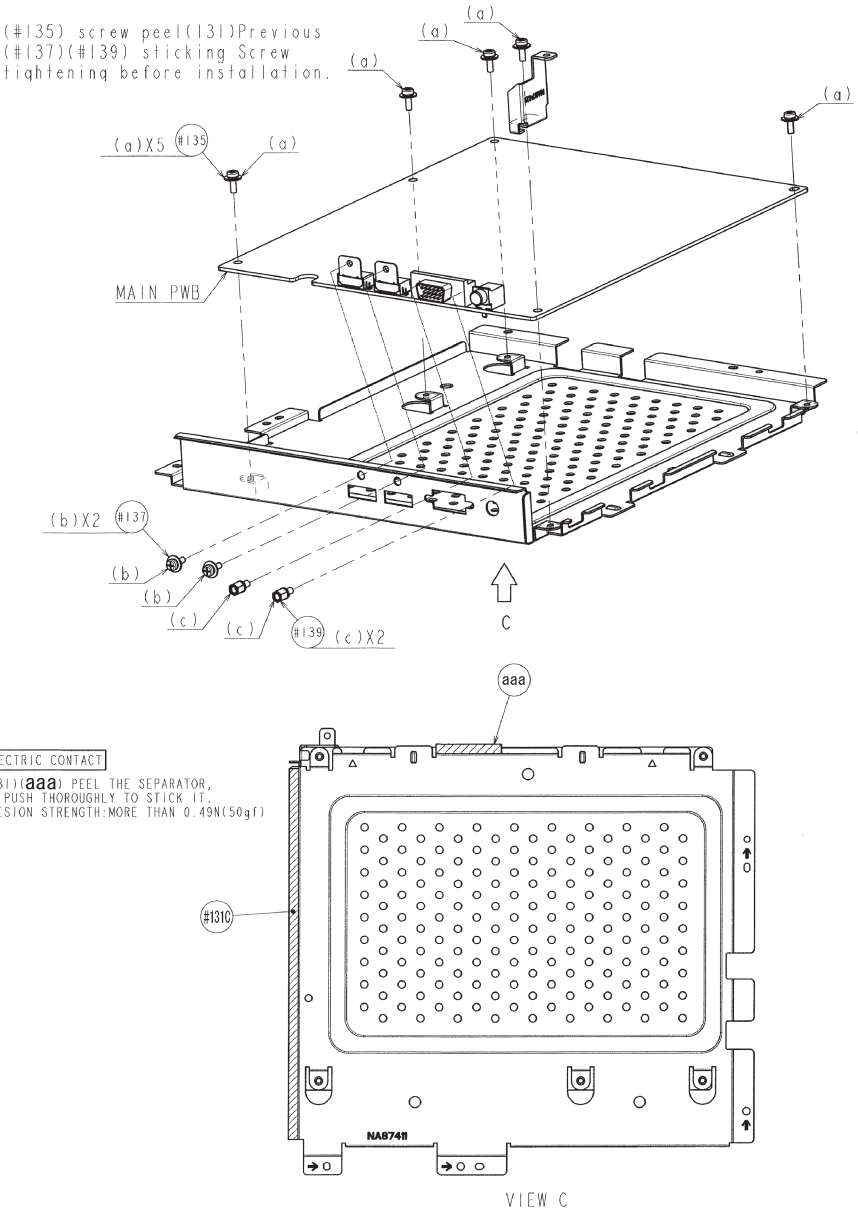
PWB assembly MAIN - 1



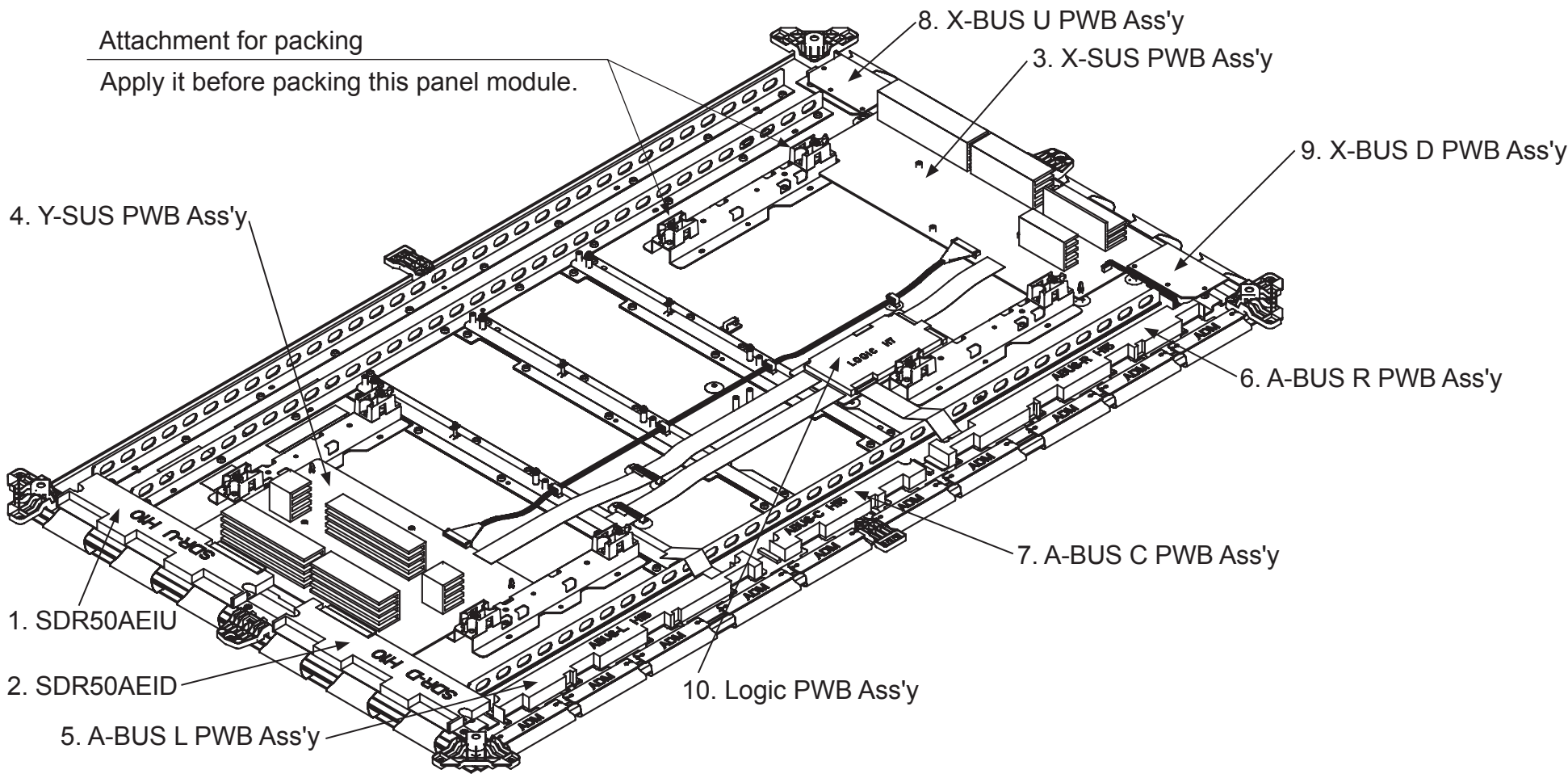
Terminal / PWB assembly POWER



PWB assembly MAIN - 2



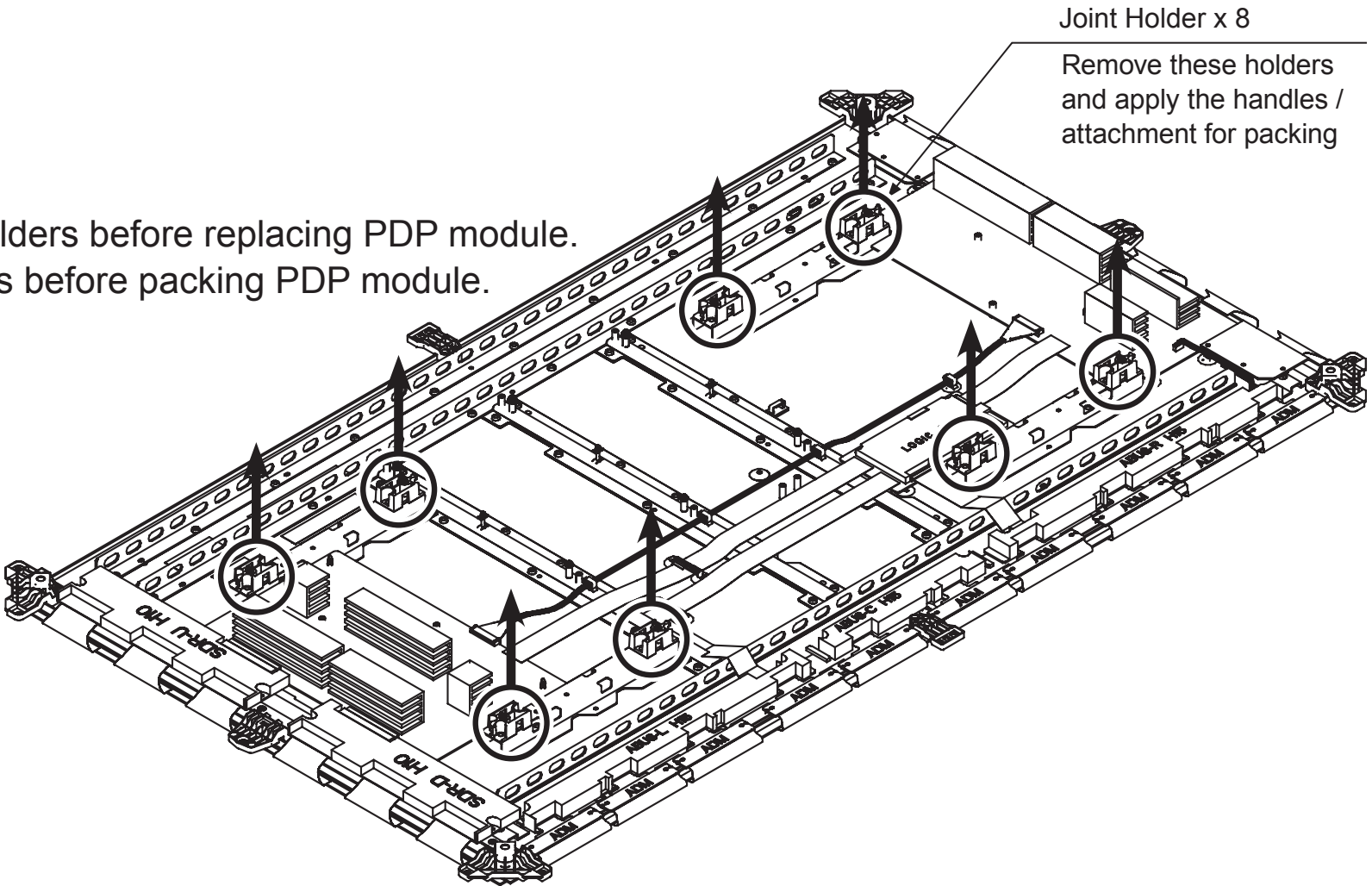
[50PD9800 Disassembly Diagram 5]



Remove there holders before replacing PDP module.
Add these holders before packing PDP module.

Manufactured at FHP factory

No	Spare Part Name	FHP Spare Part#
	Panel Module	FPF50C160135UA-55
1	SDR50AEIU	FPF38R-SDR54591
2	SDR50AEID	FPF38R-SDR54601
3	X-SUS PWB Ass'y	FPF38R-XSS54571
4	Y-SUS PWB Ass'y	FPF38R-YSS54581
5	A-BUS L PWB Ass'y	FPF38R-ABL54631
6	A-BUS R PWB Ass'y	FPF38R-ABR54641
7	A-BUS C PWB Ass'y	FPF38R-ABC54651
8	X-BUS U PWB Ass'y	FPF38R-XBU54611
9	X-BUS D PWB Ass'y	FPF38R-XBD54621
10	LOGIC PWB Ass'y	FPF38R-LGC54092



15. Replacement Parts list

PRODUCT SAFETY NOTE : Components marked with a \triangle have special characteristics important to safety.

Before replacing any of these components, read carefully, the CAUTION FOR SAFETY of this Service Manual.

Don't degrade the safety of the receiver through improper servicing.

NOTE : This parts list is applied to the products made in Japan.

Parts on FC board are not included on this parts list.

ABBREVIATIONS	Capacitors.....CD: Ceramic Disk, PF: Polyester Film, EL: Electrolytic, PP: Polypropylene, PR: Paper, TA: Tantalum, TM: Trimer.
Resistors.....	CF: Carbon film, MG: Metal Glazed, VR: Variable resistor, X4: 4 Network
	WW: Wire Wound, FR: Fuse Resistor, CC: Carbon Composition, MF: Metal Oxide Film.
Semiconductors....	TR: Transistor, DI: Diode, ZD: Zener Diode, VA: Varistor, TH: Thermistor.


SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
#0800	KS22031	FRONT FILTER	#428	ML02052	PCB SUPPORT
#10A	SG44401	CARTON BOX	#50	SP23031	CUSHION BOTTOM
#131C	MF01854	GASKET	#503	MJ04046	SCREW M5X14
#131	MN30583J	CUSHION FOR FRONT FILTER L=1148	#507	MJ03895	4X10 SCREW D3 BIND CP-GRIP
#133	MN30584J	CUSHION FOR FRONT FILTER L=635	#509	ML02191	CABLE CLAMP
#135	MJ03467	SCREW PAN M3*8	#515	MJ03895	4X10 SCREW D3 BIND CP-GRIP
#137	MJ03467	SCREW PAN M3*8	#60	MM00181	GRIP JOINT(CARTON BOX)
#139	MJ03351	SCREW D-SUB	#601	MJ03895	4X10 SCREW D3 BIND CP-GRIP
#160	MF02254	GASKET 10-1-51 J1G	#70	SU04601	LAMINATE COVER
#20	SG41761	CARTON BOX TRAY BOTTOM	#707	MJ03895	4X10 SCREW D3 BIND CP-GRIP
#200A	QD54903	BEZEL ASS'Y	#709	ML02191	CABLE CLAMP
#208	PH41911	DOOR ASS'Y	#713	MJ03895	4X10 SCREW D3 BIND CP-GRIP
#210	PH41921	SPEAKER GRILLE R	#715	MJ03895	4X10 SCREW D3 BIND CP-GRIP
#212	PH41931	SPEAKER GRILLE L	#717	MJ04061	PAN SCREW M4X10
#219	NJ04621	LATCH(DOMESTIC ONLY /SN:CTV-1730)	#725	MJ03895	4X10 SCREW D3 BIND CP-GRIP
#231	MJ03568	4X16 DT SCREW	#727	MJ04061	PAN SCREW M4X10
#232	MJ03467	SCREW PAN M3*8	#803	MJ03693	BOLT M6X18 WITH WASHER
#233	MJ03649	M3X10 T SCREW	#805	MJ03958	SCREW M3X13
#262	MJ04013	SCREW M3X16	#807	PC07041	POWER BUTTON ASS'Y
#264	MJ04013	SCREW M3X16	#817	MJ03895	4X10 SCREW D3 BIND CP-GRIP
#270	MJ03895	4X10 SCREW D3 BIND CP-GRIP	#819	MJ03895	4X10 SCREW D3 BIND CP-GRIP
#30	SG39781	CARTON BOX PAD	#821	MJ03895	4X10 SCREW D3 BIND CP-GRIP
#301	MJ04028	SCREW T2B 3*12 PZ+	#901	QA03542	BACK COVER
#303	MJ04061	PAN SCREW M4X10	#903	PH35781	BACK COVER GRIP
#305	MS01631J	SHEET FOR SPEAKER	#905	MJ03895	4X10 SCREW D3 BIND CP-GRIP
#306	NA83191	TERMINAL DOOR	#909	MJ03693	BOLT M6X18 WITH WASHER
#31	QL00631	LABEL	#911	ML03211	CABLE CLAMP
#310	MJ03467	SCREW PAN M3*8	#915	ML02111	CABLE CLAMP
#311	MJ03963	SCREW M3X8 PAN HEAD	#917	QL21403	TEMP CAUTION LABEL
#312	MK02155	ANTENNA NUT	#A	QJ04351	STAND ASS'Y
#313	MK01518	ANTENNA WASHER	A11	UX27235	PWB ASS'Y MAIN
#314	MJ03351	SCREW D-SUB	A21	JP53814	PWB ASS'Y SUB
#316	MJ03733	SCREW M3X10	A31	JP53931	PWB ASS'Y FILTER
#318	ML02251	WIRE CLAMP 10L	A41	JP55481	PWB ASS'Y CONTROL
#320	MJ03467	SCREW PAN M3*8	C001	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
#362	NJ23851	POWER SW SHAFT	C002	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
#364	MJ03467	SCREW PAN M3*8	C003	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
#374	ML02191	CABLE CLAMP	C004	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
#376	MJ03467	SCREW PAN M3*8	C005	0893116R	CAPACITOR CHIP 18PF +-5% 50V
#40	SP23021	CUSHION TOP	C006	0893116R	CAPACITOR CHIP 18PF +-5% 50V
#403	MJ03598	M3X8 SCREW WITH WASHER	C007	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
#405	MJ04056	SCREW M3X8	C008	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
#413	NX31801	FAN HOLDER	C009	0893193R	CAPACITOR CHIP 0.01MF +-10% 25V
#415	MJ03895	4X10 SCREW D3 BIND CP-GRIP	C011	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
#417	MJ03598	M3X8 SCREW WITH WASHER	C016	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
#420	PH40153	BUTTON CONTROL	C017	AA00822R	CAPACITOR CHIP 1000PF +-5% 50V
#422	MJ03467	SCREW PAN M3*8	C018	0893126R	CAPACITOR CHIP 100PF +-5% 50V
#426	MJ03734	SCREW T2B 3*10BD+	C019	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V





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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
C021	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C3M1	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
C022	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C3M2	AD10488R	CAPACITOR CHIP 100UF +-20% 4V
C023	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C3M3	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
C309	AA00969R	CAPACITOR CHIP 22MF +-10% 6.3V	C3M5	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
C310	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C3M7	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
C311	AA00969R	CAPACITOR CHIP 22MF +-10% 6.3V	C3M8	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
C312	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C3M9	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
C313	AA00969R	CAPACITOR CHIP 22MF +-10% 6.3V	C3N0	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
C314	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C3N1	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
C315	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C3N2	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
C316	AA00955R	CAPACITOR CHIP 4.7MF +-10% 16V	C3N3	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
C318	0893267R	CAPACITOR CHIP 22PF +-5% 50V	C3N5	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
C319	0893267R	CAPACITOR CHIP 22PF +-5% 50V	C3N6	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
C321	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C3X0	0893108R	CAPACITOR CHIP 6PF +-0.25PF 50V
C323	0893258R	CAPACITOR CHIP 6PF +-0.5% 50V	C3X1	0893108R	CAPACITOR CHIP 6PF +-0.25PF 50V
C324	0893264R	CAPACITOR CHIP 12PF +-5% 50V	C414	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
C327	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C415	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V
C329	0893258R	CAPACITOR CHIP 6PF +-0.5% 50V	C434	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V
C330	0893264R	CAPACITOR CHIP 12PF +-5% 50V	C435	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V
C331	0893257R	CAPACITOR CHIP 5PF +-0.25PF 50V	C449	AA00699R	CAPACITOR CHIP 10MF +-10% 16V
C333	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C450	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C334	0893267R	CAPACITOR CHIP 22PF +-5% 50V	C451	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C335	0893267R	CAPACITOR CHIP 22PF +-5% 50V	C452	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C337	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C453	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C339	0893258R	CAPACITOR CHIP 6PF +-0.5% 50V	C454	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C340	0893264R	CAPACITOR CHIP 12PF +-5% 50V	C455	AA01143R	CAPACITOR CHIP 0.22MF +-10% 16V
C341	0893257R	CAPACITOR CHIP 5PF +-0.25PF 50V	C456	AA01143R	CAPACITOR CHIP 0.22MF +-10% 16V
C343	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C457	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
C344	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C458	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C345	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C459	AA01143R	CAPACITOR CHIP 0.22MF +-10% 16V
C346	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C460	AA01143R	CAPACITOR CHIP 0.22MF +-10% 16V
C347	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C461	0893099R	CAPACITOR CHIP, 0.47MF +-10% 16V
C348	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C462	AA01143R	CAPACITOR CHIP 0.22MF +-10% 16V
C349	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C463	AA01143R	CAPACITOR CHIP 0.22MF +-10% 16V
C350	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C464	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C351	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C465	AD00443R	CAPACITOR EL CHIP 220MF 16V
C352	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C466	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C353	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C467	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C354	AA01216R	CAPACITOR CHIP 1MF +-10% 6.3V	C468	AD00443R	CAPACITOR EL CHIP 220MF 16V
C366	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C469	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C367	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C470	0893099R	CAPACITOR CHIP, 0.47MF +-10% 16V
C368	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C471	AA01143R	CAPACITOR CHIP 0.22MF +-10% 16V
C369	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C472	AA01143R	CAPACITOR CHIP 0.22MF +-10% 16V
C370	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C497	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
C371	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	C498	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C372	AA01115R	CAPACITOR CHIP 4.7MF +-10% 6.3V	C499	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
C373	AA01115R	CAPACITOR CHIP 4.7MF +-10% 6.3V	C4A0	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
C374	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C4A1	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
C375	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C4A2	AA01115R	CAPACITOR CHIP 4.7MF +-10% 6.3V
C376	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C4A3	AA01115R	CAPACITOR CHIP 4.7MF +-10% 6.3V
C377	AA01216R	CAPACITOR CHIP 1MF +-10% 6.3V	C4A4	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
C378	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	C601	AA00934R	CAPACITOR CHIP 2.2MF +-10% 10V
C379	AA01216R	CAPACITOR CHIP 1MF +-10% 6.3V	C602	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
C3L7	AA01115R	CAPACITOR CHIP 4.7MF +-10% 6.3V	C603	AA00966R	CAPACITOR CHIP 4.7MF +-20% 3.6V
C3L8	AA01115R	CAPACITOR CHIP 4.7MF +-10% 6.3V	C604	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V
C3M0	AD10488R	CAPACITOR CHIP 100UF +-20% 4V	C605	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
C606	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	CE68	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
C607	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	CE69	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
C608	AA01126R	CAPACITOR CHIP 0.22MF +-10% 10V	CE90	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
C609	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CE91	AA01111R	CAPACITOR CHIP 1MF +-10% 6.3V
C610	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CE93	0893135R	CAPACITOR CHIP 470PF +-5% 50V
 C901	AN02089S	CAPACITOR 1MF +-10% 250V	CEA0	AA01111R	CAPACITOR CHIP 1MF +-10% 6.3V
 C902	AN02087S	CAPACITOR 0.47MF +-10% 250V	CEA1	AA01111R	CAPACITOR CHIP 1MF +-10% 6.3V
 C903	AJ00184F	CD 2200PF +-20% 400V	CEA3	0893135R	CAPACITOR CHIP 470PF +-5% 50V
 C904	AJ00184F	CD 2200PF +-20% 400V	CEE3	AA01115R	CAPACITOR CHIP 4.7MF +-10% 6.3V
CA01	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	CEH0	AD10488R	CAPACITOR CHIP 100UF +-20% 4V
CA02	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	CEH1	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CA03	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	CEH2	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CA04	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	CEH3	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CA05	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	CEH4	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CA06	AD00632R	CAPACITOR EL CHIP 47MF 16V	CEH5	AD10488R	CAPACITOR CHIP 100UF +-20% 4V
CA19	AA01144R	CAPACITOR CHIP 1MF +-10% 16V	CEH6	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CA20	AD00631R	CAPACITOR EL CHIP 22MF 16V	CEM3	AA01115R	CAPACITOR CHIP 4.7MF +-10% 6.3V
CA21	AD00631R	CAPACITOR EL CHIP 22MF 16V	CEP0	AD10488R	CAPACITOR CHIP 100UF +-20% 4V
CA25	0893135R	CAPACITOR CHIP 470PF +-5% 50V	CEP2	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CA27	AA01144R	CAPACITOR CHIP 1MF +-10% 16V	CEP3	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE00	AD10488R	CAPACITOR CHIP 100UF +-20% 4V	CEP4	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE02	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CEP5	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE03	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CEP6	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE04	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CEP7	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE05	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CEP8	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE06	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CEP9	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE07	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CER0	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE08	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CER1	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE09	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CER2	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE10	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CER3	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE11	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CER4	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE12	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CER5	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE13	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CER6	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE14	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CER7	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE15	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CER8	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE16	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CER9	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE17	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CES0	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE18	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CES1	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE21	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CES2	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE22	AD10488R	CAPACITOR CHIP 100UF +-20% 4V	CES3	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE30	AD10488R	CAPACITOR CHIP 100UF +-20% 4V	CES4	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE31	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CES5	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE33	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CES6	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE34	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CES7	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE35	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CES8	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE36	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CES9	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE37	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CET0	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE38	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CET1	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE39	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CET2	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE60	AD10488R	CAPACITOR CHIP 100UF +-20% 4V	CET3	AD10488R	CAPACITOR CHIP 100UF +-20% 4V
CE61	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CEU0	AA01115R	CAPACITOR CHIP 4.7MF +-10% 6.3V
CE63	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CEU1	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CE64	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CEX0	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CE65	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CEX1	AA01111R	CAPACITOR CHIP 1MF +-10% 6.3V
CE66	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CEX3	0893135R	CAPACITOR CHIP 470PF +-5% 50V
CE67	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CEX4	AA01115R	CAPACITOR CHIP 4.7MF +-10% 6.3V

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
CEY0	0893188R	CAPACITOR CHIP 0.047MF +-10% 16V	CH53	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CEY1	0893213R	CAPACITOR CHIP 2200PF 50V	CH54	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CEY2	0893222R	CAPACITOR CHIP 0.01MF +-10% 50V	CH55	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CEY3	0893222R	CAPACITOR CHIP 0.01MF +-10% 50V	CH56	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CEY5	AA00937R	CAPACITOR CHIP 10MF +-10% 10V	CH57	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CEY6	AA00969R	CAPACITOR CHIP 22MF +-10% 6.3V	CH58	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CEZ0	0893188R	CAPACITOR CHIP 0.047MF +-10% 16V	CH59	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CEZ1	0893213R	CAPACITOR CHIP 2200PF 50V	CH60	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CEZ2	0893222R	CAPACITOR CHIP 0.01MF +-10% 50V	CH61	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CEZ3	0893222R	CAPACITOR CHIP 0.01MF +-10% 50V	CH62	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CEZ5	AA00937R	CAPACITOR CHIP 10MF +-10% 10V	CH63	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CEZ6	AA00969R	CAPACITOR CHIP 22MF +-10% 6.3V	CH64	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CF01	0244113	CD 330PF +-10% 50V	CH65	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CH07	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CH66	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CH08	AA01216R	CAPACITOR CHIP 1MF +-10% 6.3V	CH67	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CH09	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CH68	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CH10	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CH69	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CH11	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CH70	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CH12	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CH71	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CH13	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CH72	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CH17	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CH73	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CH18	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CH74	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CH19	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CH75	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CH20	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CH76	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CH21	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CH77	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CH22	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CH78	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CH23	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CH79	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CH24	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CH80	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CH25	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CH81	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CH26	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CH82	AA00968R	CAPACITOR CHIP 10MF +-20% 6.3V
CH27	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CH83	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CH28	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CH84	CE00151R	VARISTOR EZJZ0V80010
CH29	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CH85	CE00151R	VARISTOR EZJZ0V80010
CH30	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CH86	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
CH31	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CH87	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
CH32	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CH96	AA00968R	CAPACITOR CHIP 10MF +-20% 6.3V
CH33	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CH97	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CH34	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CH98	CE00151R	VARISTOR EZJZ0V80010
CH35	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CH99	CE00151R	VARISTOR EZJZ0V80010
CH36	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CHA1	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
CH37	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CHA2	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
CH38	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CHC1	AA00968R	CAPACITOR CHIP 10MF +-20% 6.3V
CH39	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CHC2	AA00968R	CAPACITOR CHIP 10MF +-20% 6.3V
CH40	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	CHC3	AA00968R	CAPACITOR CHIP 10MF +-20% 6.3V
CH41	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CHC4	AA00955R	CAPACITOR CHIP 4.7MF +-10% 16V
CH42	0893262R	CAPACITOR CHIP 9PF +-0.5% 50V	CHC5	0893349R	CAPACITOR CHIP 4700PF +-10% 50V
CH43	0893262R	CAPACITOR CHIP 9PF +-0.5% 50V	CHC6	0893349R	CAPACITOR CHIP 4700PF +-10% 50V
CH44	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CHC7	AA00968R	CAPACITOR CHIP 10MF +-20% 6.3V
CH45	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CHC9	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
CH46	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CHE0	AA01144R	CAPACITOR CHIP 1MF +-10% 16V
CH47	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CHE1	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
CH48	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CHE4	0893341R	CAPACITOR CHIP 0.01UF +80% -20% 50V
CH49	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CHE7	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CH50	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	CHE8	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CH51	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CL51	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CH52	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CM01	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V


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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
CM02	AA10872R	CAPACITOR CHIP 0.1MF +-10% 10V	CR70	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V
CMP1	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CR71	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V
CMP2	AD00441R	CAPACITOR EL CHIP 100MF 16V	CR72	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V
CMP3	AA01347R	CAPACITOR CHIP 0.1MF +-10% 25V	CR73	AD00629R	CAPACITOR EL CHIP 10MF 16V
CMP4	AD00441R	CAPACITOR EL CHIP 100MF 16V	CR74	AA01121R	CAPACITOR CHIP 0.47MF +-10% 10V
CMP5	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CR75	AA01121R	CAPACITOR CHIP 0.47MF +-10% 10V
CMP6	AD00439R	CAPACITOR EL CHIP 47MF 16V	CR78	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CMP7	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CR79	0893348R	CAPACITOR CHIP 0.01MF +-10% 25V
CR01	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CR80	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR02	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CR81	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR03	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CR82	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR04	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CR83	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR05	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CR84	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR06	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CR85	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR07	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CR86	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR11	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CR87	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CR12	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CR88	AD00658R	CAPACITOR EL CHIP 100MF 50V
CR13	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CR89	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR14	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CR94	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR15	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CR95	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR18	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CR96	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR19	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CR97	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR22	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CR98	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR23	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CR99	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR26	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CT01	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CR27	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CT02	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CR30	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CT03	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CR31	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CT04	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR32	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CT05	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CR33	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CT06	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR36	AD00421R	CAPACITOR EL CHIP 470MF 6.3V	CT07	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CR38	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT08	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR39	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CT09	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR40	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT10	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V
CR41	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT11	AD00658R	CAPACITOR EL CHIP 100MF 50V
CR42	AA01116R	CAPACITOR CHIP 10MF +-10% 6.3V	CT12	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CR43	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT13	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CR46	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT14	0800359R	CAPACITOR EL 1000MF 10V
CR47	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT17	0800359R	CAPACITOR EL 1000MF 10V
CR48	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT18	AD00479R	CAPACITOR EL CHIP 10MF 50V
CR49	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT20	0893341R	CAPACITOR CHIP 0.01UF +80% -20% 50V
CR50	0893348R	CAPACITOR CHIP 0.01MF +-10% 25V	CT21	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
CR51	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT22	0893341R	CAPACITOR CHIP 0.01UF +80% -20% 50V
CR52	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT23	0893175R	CAPACITOR CHIP 1000PF +-5% 50V
CR53	0893348R	CAPACITOR CHIP 0.01MF +-10% 25V	CT25	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
CR54	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT26	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
CR55	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT35	0893273R	CAPACITOR CHIP 56PF +-5% 50V
CR56	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CT36	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CR57	AD00658R	CAPACITOR EL CHIP 100MF 50V	CT37	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CR58	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	CT38	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V
CR59	AD00658R	CAPACITOR EL CHIP 100MF 50V	CT40	AA01123R	CAPACITOR CHIP 1MF +-10% 10V
CR60	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	CT42	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
CR61	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CT43	0893276R	CAPACITOR, CHIP 100PF +-10% 50V
CR67	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CT44	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
CR68	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CT45	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V
CR69	AA01955R	CAPACITOR CHIP 1000PF +-10% 50V	CT46	0893273R	CAPACITOR CHIP 56PF +-5% 50V


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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
CT47	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	D603	CC02004R	DIODE ZENER CHIP UdzSTE-176.2B
CT48	AD00661R	CAPACITOR EL CHIP 220MF 6.3V	D604	CC02004R	DIODE ZENER CHIP UdzSTE-176.2B
CT49	0893273R	CAPACITOR CHIP 56PF +-5% 50V	D605	CC02004R	DIODE ZENER CHIP UdzSTE-176.2B
CT50	0893255R	CAPACITOR CHIP 3PF +-0.25% 50V	D606	CC01891R	DIODE CHIP SDS511 PF
CT51	0893256R	CAPACITOR CHIP 4PF +-0.25PF 50V	D607	CC01891R	DIODE CHIP SDS511 PF
CT54	AD00621R	CAPACITOR EL CHIP 22MF 6.3V	D608	CC02004R	DIODE ZENER CHIP UdzSTE-176.2B
CT55	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	DA06	CC02111R	DIODE CHIP RB521G-30
CT56	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	DA07	CC01921R	DIODE SDS142WKF_PF
CT58	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	DEY0	CC02211R	DIODE CHIP RSX201L-30
CT59	AD00631R	CAPACITOR EL CHIP 22MF 16V	DEZ0	CC02211R	DIODE CHIP RSX201L-30
CT60	AA00699R	CAPACITOR CHIP 10MF +-10% 16V	DF01	CC01995R	DIODE ZENER CHIP UdzSTE-173.0B
CT61	AA00935R	CAPACITOR CHIP 3.3UF +-10% 10V	DH01	CC01891R	DIODE CHIP SDS511 PF
CT62	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	DH02	CC02111R	DIODE CHIP RB521G-30
CT63	0893319R	CAPACITOR, CHIP 1000PF +-10% 50V	DH03	CC01891R	DIODE CHIP SDS511 PF
CT64	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	DH04	CC02014R	DIODE ZENER CHIP UdzSTE-1715B
CT66	AA00699R	CAPACITOR CHIP 10MF +-10% 16V	DH05	CC01891R	DIODE CHIP SDS511 PF
CT67	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	DH06	CC02111R	DIODE CHIP RB521G-30
CT68	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	DH07	CC01891R	DIODE CHIP SDS511 PF
CT69	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	DH08	CC02014R	DIODE ZENER CHIP UdzSTE-1715B
CT70	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	DH10	CC01891R	DIODE CHIP SDS511 PF
CT71	AA00937R	CAPACITOR CHIP 10MF +-10% 10V	DH11	CC01911R	DIODE SDS142WAF_PF
CT78	AD00632R	CAPACITOR EL CHIP 47MF 16V	DL51	CC02061R	LED CHIP SML-020MLT
CT80	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	DT08	CC01891R	DIODE CHIP SDS511 PF
CT81	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	DY01	CC01891R	DIODE CHIP SDS511 PF
CT82	AA00951R	CAPACITOR CHIP 1.0MF +-10% 16V	DY02	CC01891R	DIODE CHIP SDS511 PF
CT83	AA00951R	CAPACITOR CHIP 1.0MF +-10% 16V	DY03	CC01921R	DIODE SDS142WKF_PF
CT85	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	DY04	CC01921R	DIODE SDS142WKF_PF
CT86	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	DY05	CC01921R	DIODE SDS142WKF_PF
CT87	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	DY06	CC01921R	DIODE SDS142WKF_PF
CT89	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	E001	ME05541	INSULATION SHEET
CT90	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	E01	EV02091	POWER CORD
CT92	0893333R	CAPACITOR, CHIP 0.01PF +-10% 16V	E0A1	ME05541	INSULATION SHEET
CW10	0893348R	CAPACITOR CHIP 0.01MF +-10% 25V	ECN64	EF25993	CONNECTOR 10P L=400MM
CW11	0893348R	CAPACITOR CHIP 0.01MF +-10% 25V	ECN68	2908842S	CONNECTOR 9P L=270
CW20	0893349R	CAPACITOR CHIP 4700PF +-10% 50V	ECNPPS1	EF27182	CONNECTOR 8P L=480MM
CW21	0893349R	CAPACITOR CHIP 4700PF +-10% 50V	ECNPPS2	EF27571	CONNECTOR 15P L=610MM
CY01	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	EFM1	EK01871	CONNECTOR FFC 80P L=170
CY02	0893276R	CAPACITOR, CHIP 100PF +-10% 50V	EGG	EK02171	LEAD WIRE WITH TERMINAL L=800
CY03	AD00658R	CAPACITOR EL CHIP 100MF 50V	EMC1	EF27191	CONNECTOR 20P L=1100MM
CY04	0893312R	CAPACITOR CHIP 270PF +-10% 50V	ENC63	EF26581	CONNECTOR 7P L=170MM
CY05	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	EPU1	EF22382	CONNECTOR 6P L=450MM
CY06	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	ESP1	EF26631	CONNECTOR 8P L=330
CY07	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	ESP2	EF26533	CONNECTOR WITH FASTEN CONNECTOR
CY08	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	ETU	EY02321	PAL-RCA ADAPTOR CONNECTOR
CY09	0893276R	CAPACITOR, CHIP 100PF +-10% 50V	 F902	FN00141	FUSE 10A 250V
CY10	AD00631R	CAPACITOR EL CHIP 22MF 16V	FAN	GS00695	DC FAN MOTOR
CY11	0893276R	CAPACITOR, CHIP 100PF +-10% 50V	I001	CK50661U	IC M30627FHPGP
CY12	AD00658R	CAPACITOR EL CHIP 100MF 50V	I002	CK38437R	IC BD5242G
CY13	AA01123R	CAPACITOR CHIP 1MF +-10% 10V	I003	CK53056R	IC S-24CS64A
CY14	AA01231R	CAPACITOR CHIP 0.1MF +-10% 16V	I3K0	CK53056R	IC S-24CS64A
CY15	AD00658R	CAPACITOR EL CHIP 100MF 50V	I403	CK55211R	IC R2S15901SP
D402	CC01921R	DIODE SDS142WKF_PF	I405	CK54111R	IC TPA3100D2RGZR
D403	CC01921R	DIODE SDS142WKF_PF	I409	CK37216R	IC TK11133CSCL
D404	CC01891R	DIODE CHIP SDS511 PF	I410	CK37212R	IC TK11125CSCL
D601	CC02004R	DIODE ZENER CHIP UdzSTE-176.2B	I411	CK50961R	IC SN74CB3T3306DCUR
D602	CC02161R	DIODE CHIP RB551V-30TE	I601	CK50693R	IC BR24C21FV-E2

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
I602	CK39396R	ICPI5C3253CLEX	L310	BA00892R	COIL CHIP 47UH +-20% 150MA
I603	CK34401R	IC SN74LV14APWR	L3L1	BA00892R	COIL CHIP 47UH +-20% 150MA
I604	CK38325R	IC SN74LVC1G17DCKR	L3L2	BA00892R	COIL CHIP 47UH +-20% 150MA
I605	CK38325R	IC SN74LVC1G17DCKR	L401	BA02272R	INDUCTOR CHIP 15UH +-20% 2.8A
I606	CK37218R	IC TK11150CSCL	L402	BA02272R	INDUCTOR CHIP 15UH +-20% 2.8A
IA01	CK50027R	IC MAX202IPWR	L410	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
IA04	CK55771R	IC MM1665XHBE	L601	BA00892R	COIL CHIP 47UH +-20% 150MA
IE30	CK54761U	IC K4H561638H-UCCC	L602	BA00892R	COIL CHIP 47UH +-20% 150MA
IE60	CK54761U	IC K4H561638H-UCCC	L901	BZ06241	COIL 1.7MH LINE FILTER
IE90	CK53498R	IC MM1664AHBE	LEE0	BA00892R	COIL CHIP 47UH +-20% 150MA
IEA0	CK55771R	IC MM1665XHBE	LEM0	BA00892R	COIL CHIP 47UH +-20% 150MA
IEU0	CK52622U	IC S29AL032D70TFI030	LEU0	BA00892R	COIL CHIP 47UH +-20% 150MA
IEX0	CK53491R	IC MM1663DHBE	LEX0	BA00892R	COIL CHIP 47UH +-20% 150MA
IEY0	CK54161R	IC MP2361DK-LF-Z	LEY0	BA02251R	INDUCTOR CHIP 4.7UH +-30% 1.7A
IEZ0	CK54161R	IC MP2361DK-LF-Z	LEZ0	BA02251R	INDUCTOR CHIP 4.7UH +-30% 1.7A
IH01	CK53052R	IC S-24CS02A	LH02	BM00289R	FERRITE BEADS CHIP
IH02	CK53052R	IC S-24CS02A	LH03	BM00289R	FERRITE BEADS CHIP
IH05	CK53431U	IC SI9023CTU	LH04	BM00289R	FERRITE BEADS CHIP
IH06	CK37211R	IC TK11118CSCL/-G	LH05	BM00289R	FERRITE BEADS CHIP
IH07	CK53921R	IC WM8520H9GED/R	LH06	BM00289R	FERRITE BEADS CHIP
IH08	CK53951R	IC MM1685LHBE	LH12	BA00894R	COIL CHIP 100MH 100MA
IH10	CK50961R	IC SN74CB3T3306DCUR	LH13	BM00289R	FERRITE BEADS CHIP
IH11	CK50961R	IC SN74CB3T3306DCUR	LH14	BM00289R	FERRITE BEADS CHIP
IL51	CZ01171	IC GP1UM281RK	LH15	BM10348R	INDUCTOR SOLID CHP
IM01	CK24551	IC TC4066BFT	LL51	BA00892R	COIL CHIP 47UH +-20% 150MA
IM02	CK24551	IC TC4066BFT	LT01	BA00714R	COIL CHIP 100UH
IT01	CK55221U	IC MSP4450G	LT02	BA00714R	COIL CHIP 100UH
IT02	CK53951R	IC MM1685LHBE	LT03	BA02254R	INDUCTOR CHIP 47MH
IT03	CK53509R	IC MM1665AHBE	LT05	BA00714R	COIL CHIP 100UH
IY01	CK54971U	IC AN15867A	LVDS	EW08556C	LVDS CABEL L=300MM
IY02	CK39891R	IC MM1631XJBE	LY12	BA00892R	COIL CHIP 47UH +-20% 150MA
IY03	CK54101R	IC MAX9723DETE+TG069	LY13	BA00892R	COIL CHIP 47UH +-20% 150MA
J001	ER00581	JACK 1P	LY14	BA00864R	COIL CHIP 10UH
J601	EY01792	CONNECTOR D-SUB 15P	LY17	BA00864R	COIL CHIP 10UH
 J901	2676371	AC INLET	LY18	BA00892R	COIL CHIP 47UH +-20% 150MA
JA01	EQ00851	JACK 9P	LY21	BA00889R	COIL CHIP 22UH
JH01	EA02291U	CONNECTOR HDMI	LY22	BA00892R	COIL CHIP 47UH +-20% 150MA
JH02	EA02291U	CONNECTOR HDMI	LY23	BA00892R	COIL CHIP 47UH +-20% 150MA
JW01	ER00591	JACK STEREO MINI	LY24	BA00892R	COIL CHIP 47UH +-20% 150MA
JW02	ES00641	JACK S+3P	LY25	BA00864R	COIL CHIP 10UH
JY01	ES00631	JACK	LY26	BA00892R	COIL CHIP 47UH +-20% 150MA
JY02	EQ00911	JACK 6P	N01	QR70861	USER'S MANUAL
K901	2784381A	TAPED JUMP.WIRE 0.60MM	N902	FP00051	FUSE HOLDER
K902	2784381A	TAPED JUMP.WIRE 0.60MM	NVS03	GX00667	FERRITE CORE
K903	2784381A	TAPED JUMP.WIRE 0.60MM	NVS04	GX00667	FERRITE CORE
K904	2784381A	TAPED JUMP.WIRE 0.60MM	NVS05	GX00667	FERRITE CORE
K905	2784381A	TAPED JUMP.WIRE 0.60MM	NVS07	GX00667	FERRITE CORE
K907	2784381A	TAPED JUMP.WIRE 0.60MM	NVS08	GX00666	FERRITE CORE
K908	2784381A	TAPED JUMP.WIRE 0.60MM	NVS09	GX00666	FERRITE CORE
L300	BA00892R	COIL CHIP 47UH +-20% 150MA	NVS10	2169511	FERRITE CORE
L301	BA01138R	INDUCTOR CHIP 12UH +-10% 15MA	NVS11	GX00666	FERRITE CORE
L302	BA01127R	INDUCTOR CHIP 1.8UH +-10% 50MA	NVS6	GX00667	FERRITE CORE
L304	BA01133R	INDUCTOR CHIP 4.7MH	P902	EF22394	CONNECTOR 1P L=80MM
L306	BA01138R	INDUCTOR CHIP 12UH +-10% 15MA	Q003	CA02403R	TRANSISTOR CHIP 2SA1980EFG
L307	BA01133R	INDUCTOR CHIP 4.7MH	Q004	CA14091R	TRANSISTOR CHIP 2SC5343E L
L309	BA00889R	COIL CHIP 22UH	Q005	CA02403R	TRANSISTOR CHIP 2SA1980EFG

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
Q006	CA02403R	TRANSISTOR CHIP 2SA1980EFG	QT03	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF
Q007	CA02092R	TRANSISTOR CHIP SRC1202EF	QT04	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF
Q008	CA02092R	TRANSISTOR CHIP SRC1202EF	QT06	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF
Q009	CA02092R	TRANSISTOR CHIP SRC1202EF	QT11	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF
Q010	CA02092R	TRANSISTOR CHIP SRC1202EF	QT12	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF
Q011	CA14091R	TRANSISTOR CHIP 2SC5343E L	QT13	CA00981R	TRANSISTOR CHIP DTC114EE TL
Q012	CA02403R	TRANSISTOR CHIP 2SA1980EFG	QT15	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF
Q013	CA14091R	TRANSISTOR CHIP 2SC5343E L	QW10	CA11161R	TRANSISTOR, PHOTO DTC144EUA T106
Q014	CA02092R	TRANSISTOR CHIP SRC1202EF	QY01	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF
Q019	CA14091R	TRANSISTOR CHIP 2SC5343E L	QY02	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF
Q020	CA02092R	TRANSISTOR CHIP SRC1202EF	QY03	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF
Q021	CA14091R	TRANSISTOR CHIP 2SC5343E L	QY04	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF
Q022	CA02092R	TRANSISTOR CHIP SRC1202EF	QY05	CA14091R	TRANSISTOR CHIP 2SC5343E L
Q303	CA14091R	TRANSISTOR CHIP 2SC5343E L	QY09	CA02132R	TRANSISTOR CHIP 2SA1980UFG PF
Q304	CA14091R	TRANSISTOR CHIP 2SC5343E L	QY10	CA02132R	TRANSISTOR CHIP 2SA1980UFG PF
Q305	CA14091R	TRANSISTOR CHIP 2SC5343E L	QY11	CA02132R	TRANSISTOR CHIP 2SA1980UFG PF
Q306	CA14091R	TRANSISTOR CHIP 2SC5343E L	QY12	CA02132R	TRANSISTOR CHIP 2SA1980UFG PF
Q307	CA02403R	TRANSISTOR CHIP 2SA1980EFG	QY14	2320663	TRANSISTOR 2SC1213AC
Q308	CA14091R	TRANSISTOR CHIP 2SC5343E L	QY15	CA01011R	TRANSISTOR CHIP 2SK3018 T106
Q309	CA02403R	TRANSISTOR CHIP 2SA1980EFG	QY16	CA01011R	TRANSISTOR CHIP 2SK3018 T106
Q310	CA14091R	TRANSISTOR CHIP 2SC5343E L	QY17	CA02132R	TRANSISTOR CHIP 2SA1980UFG PF
Q311	CA02403R	TRANSISTOR CHIP 2SA1980EFG	QY18	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF
Q312	CA14091R	TRANSISTOR CHIP 2SC5343E L	QY19	CA02132R	TRANSISTOR CHIP 2SA1980UFG PF
Q313	CA02403R	TRANSISTOR CHIP 2SA1980EFG	QY20	CA01181R	TRANSISTOR, CHIP IMD10AT108
Q314	CA14091R	TRANSISTOR CHIP 2SC5343E L	QY21	CA00461R	TRANSISTOR CHIP 2SD2114K
Q315	CA02403R	TRANSISTOR CHIP 2SA1980EFG	QY22	CA00461R	TRANSISTOR CHIP 2SD2114K
Q316	CA14091R	TRANSISTOR CHIP 2SC5343E L	QY23	CA01181R	TRANSISTOR, CHIP IMD10AT108
Q317	CA02403R	TRANSISTOR CHIP 2SA1980EFG	QY24	CA00461R	TRANSISTOR CHIP 2SD2114K
Q3M0	CA01011R	TRANSISTOR CHIP 2SK3018 T106	R001	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
Q3S0	CA02092R	TRANSISTOR CHIP SRC1202EF	R002	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
Q401	CA02091R	TRANSISTOR SRC1204EF PF	R003	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
Q402	CA02091R	TRANSISTOR SRC1204EF PF	R005	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
Q403	CA01181R	TRANSISTOR, CHIP IMD10AT108	R006	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
Q404	CA00461R	TRANSISTOR CHIP 2SD2114K	R007	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
Q405	CA00461R	TRANSISTOR CHIP 2SD2114K	R008	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
Q415	CA02091R	TRANSISTOR SRC1204EF PF	R009	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
Q701	CA01011R	TRANSISTOR CHIP 2SK3018 T106	R010	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
Q702	CA01011R	TRANSISTOR CHIP 2SK3018 T106	R011	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
QF01	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF	R013	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
QH02	CA02092R	TRANSISTOR CHIP SRC1202EF	R014	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
QH03	CA01011R	TRANSISTOR CHIP 2SK3018 T106	R015	0790198R	RESISTOR CHIP 220 OHM +-5% 1/16W
QH04	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF	R016	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
QH07	CA02092R	TRANSISTOR CHIP SRC1202EF	R017	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
QH08	CA01011R	TRANSISTOR CHIP 2SK3018 T106	R018	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
QH09	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF	R019	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
QH10	CA02092R	TRANSISTOR CHIP SRC1202EF	R021	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
QH12	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF	R022	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
QH15	CA01181R	TRANSISTOR, CHIP IMD10AT108	R023	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
QH16	CA00461R	TRANSISTOR CHIP 2SD2114K	R024	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
QH17	CA00461R	TRANSISTOR CHIP 2SD2114K	R025	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
QM01	CA14091R	TRANSISTOR CHIP 2SC5343E L	R026	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
QM11	CA02092R	TRANSISTOR CHIP SRC1202EF	R027	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
QM12	CA02092R	TRANSISTOR CHIP SRC1202EF	R028	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
QMP1	CA14091R	TRANSISTOR CHIP 2SC5343E L	R029	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
QT01	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF	R030	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
QT02	CA02142R	TRANSISTOR CHIP 2SC5343UFG PF	R031	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W

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R032	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R093	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
R033	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R094	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
R034	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R098	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
R035	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R099	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
R036	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R106	0790208R	RESISTOR CHIP 1.2K OHM +-5% 1/16W
R037	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R107	0790208R	RESISTOR CHIP 1.2K OHM +-5% 1/16W
R038	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W	R108	0790225R	RESISTOR CHIP 22K OHM +-5% 1/16W
R039	0790202R	RESISTOR CHIP 390 OHM +-5% 1/16W	R109	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
R040	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R110	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R041	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R111	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
R042	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W	R112	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R043	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W	R113	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R044	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R116	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R045	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R117	0790218R	RESISTOR CHIP 6.8K OHM +-5% 1/16W
R046	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R118	0790218R	RESISTOR CHIP 6.8K OHM +-5% 1/16W
R047	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R120	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W
R048	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R121	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W
R049	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R122	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W
R050	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R123	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W
R051	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R124	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W
R052	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R125	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W
R055	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R126	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W
R057	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R127	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R059	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R128	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R060	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R129	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W
R061	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R130	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W
R062	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R131	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W
R063	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R133	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R064	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R134	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
R065	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R135	0790223R	RESISTOR CHIP 15K OHM +-5% 1/16W
R066	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R138	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R067	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R139	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R068	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R140	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R069	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R141	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R070	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R143	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R071	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R144	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R072	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R145	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R073	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R146	0790217R	RESISTOR CHIP 5.6K OHM +-5% 1/16W
R074	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R147	0790217R	RESISTOR CHIP 5.6K OHM +-5% 1/16W
R075	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R148	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R076	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R149	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R077	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R150	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R078	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R151	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W
R079	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R153	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W
R080	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W	R154	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W
R081	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W	R155	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R082	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R156	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R083	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R157	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W
R084	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W	R158	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W
R085	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R159	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W
R086	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R160	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W
R087	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R161	0790227R	RESISTOR CHIP 33K OHM +-5% 1/16W
R088	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W	R162	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W
R090	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R163	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R091	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R164	0790215R	RESISTOR CHIP 3.9K OHM +-5% 1/16W
R092	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R167	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R168	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R316	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R169	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R317	0790204R	RESISTOR CHIP 560 OHM +-5% 1/16W
R170	0790217R	RESISTOR CHIP 5.6K OHM +-5% 1/16W	R318	0790231R	RESISTOR CHIP 56K OHM +-5% 1/16W
R171	0790217R	RESISTOR CHIP 5.6K OHM +-5% 1/16W	R319	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R173	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	R320	0790204R	RESISTOR CHIP 560 OHM +-5% 1/16W
R174	0790217R	RESISTOR CHIP 5.6K OHM +-5% 1/16W	R321	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R175	0790217R	RESISTOR CHIP 5.6K OHM +-5% 1/16W	R324	0790185R	RESISTOR CHIP 22 OHM +-5% 1/16W
R176	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R325	0790211R	RESISTOR CHIP 1.8K OHM +-5% 1/16W
R177	0790247R	RESISTOR CHIP 1M OHM +-5% 1/16W	R326	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R178	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R327	AQ00775R	RESISTOR CHIP 560 OHM +-1% 1/16W
R179	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R329	AQ00762R	RESISTOR CHIP 180 OHM +-1% 1/16W
R180	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R330	AQ00778R	RESISTOR CHIP 750 OHM +-1% 1/16W
R181	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R331	0790209R	RESISTOR CHIP 1.5K OHM +-5% 1/16W
R183	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	R332	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R184	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W	R335	0790185R	RESISTOR CHIP 22 OHM +-5% 1/16W
R185	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W	R336	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R186	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W	R337	0790217R	RESISTOR CHIP 5.6K OHM +-5% 1/16W
R187	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W	R338	AQ00772R	RESISTOR CHIP 430 OHM +-1% 1/16W
R199	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	R340	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R200	0790236R	RESISTOR CHIP 150K OHM +-5% 1/16W	R341	AQ00744R	RESISTOR CHIP 39 OHM +-1% 1/32W
R201	0790216R	RESISTOR CHIP 4.7K OHM +-5% 1/16W	R342	AQ00774R	RESISTOR CHIP 510 OHM +-1% 1/16W
R202	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R343	0790209R	RESISTOR CHIP 1.5K OHM +-5% 1/16W
R203	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W	R344	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R204	0790217R	RESISTOR CHIP 5.6K OHM +-5% 1/16W	R347	0790185R	RESISTOR CHIP 22 OHM +-5% 1/16W
R205	0790198R	RESISTOR CHIP 220 OHM +-5% 1/16W	R348	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R206	0790198R	RESISTOR CHIP 220 OHM +-5% 1/16W	R349	0790217R	RESISTOR CHIP 5.6K OHM +-5% 1/16W
R207	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W	R350	AQ00772R	RESISTOR CHIP 430 OHM +-1% 1/16W
R208	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W	R352	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R210	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R353	AQ00744R	RESISTOR CHIP 39 OHM +-1% 1/32W
R212	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R354	AQ00774R	RESISTOR CHIP 510 OHM +-1% 1/16W
R214	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R355	0790209R	RESISTOR CHIP 1.5K OHM +-5% 1/16W
R216	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R356	0790185R	RESISTOR CHIP 22 OHM +-5% 1/16W
R217	0790228R	RESISTOR CHIP 39K OHM +-5% 1/16W	R357	0790211R	RESISTOR CHIP 1.8K OHM +-5% 1/16W
R218	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R358	AQ00775R	RESISTOR CHIP 560 OHM +-1% 1/16W
R219	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R360	AQ00762R	RESISTOR CHIP 180 OHM +-1% 1/16W
R220	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	R361	AQ00778R	RESISTOR CHIP 750 OHM +-1% 1/16W
R221	0790225R	RESISTOR CHIP 22K OHM +-5% 1/16W	R362	0790209R	RESISTOR CHIP 1.5K OHM +-5% 1/16W
R222	0790233R	RESISTOR CHIP 82K OHM +-5% 1/16W	R363	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R223	0790232R	RESISTOR CHIP 68K OHM +-5% 1/16W	R366	0790185R	RESISTOR CHIP 22 OHM +-5% 1/16W
R224	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	R367	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R245	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	R368	0790217R	RESISTOR CHIP 5.6K OHM +-5% 1/16W
R246	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R369	AQ00772R	RESISTOR CHIP 430 OHM +-1% 1/16W
R247	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R371	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R248	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R372	AQ00744R	RESISTOR CHIP 39 OHM +-1% 1/32W
R249	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R373	AQ00774R	RESISTOR CHIP 510 OHM +-1% 1/16W
R250	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W	R374	0790209R	RESISTOR CHIP 1.5K OHM +-5% 1/16W
R251	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W	R375	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W
R252	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W	R376	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W
R253	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W	R377	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W
R303	AQ00764R	RESISTOR CHIP 220 OHM +-1% 1/16W	R378	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W
R307	AQ00764R	RESISTOR CHIP 220 OHM +-1% 1/16W	R379	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W
R311	AQ00764R	RESISTOR CHIP 220 OHM +-1% 1/16W	R380	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W
R312	0790231R	RESISTOR CHIP 56K OHM +-5% 1/16W	R381	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W
R313	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W	R382	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W
R314	0790204R	RESISTOR CHIP 560 OHM +-5% 1/16W	R383	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W
R315	0790231R	RESISTOR CHIP 56K OHM +-5% 1/16W	R384	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W


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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R385	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W	R3R0	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R386	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	R3R1	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R387	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	R3R2	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R389	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R3R7	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
R390	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W	R3R8	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
R391	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R3R9	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
R392	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W	R3S1	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R393	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W	R3S2	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R395	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R3S3	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R396	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R3S4	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R397	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W	R3S5	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3A3	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R3S6	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3A4	AQ00762R	RESISTOR CHIP 180 OHM +-1% 1/16W	R3S7	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3A5	AQ00776R	RESISTOR CHIP 620 OHM +-1% 1/16W	R3S8	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3A6	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R3S9	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3A7	0790206R	RESISTOR CHIP 820 OHM +-5% 1/16W	R3T2	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3A8	0790184R	RESISTOR CHIP 18 OHM +-5% 1/16W	R3T3	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3C0	AQ00051R	RESISTOR CHIP 10K OHM +-5% 1/16W x4	R3T6	0790181R	RESISTOR CHIP 10 OHM +-5% 1/16W
R3C1	AQ00051R	RESISTOR CHIP 10K OHM +-5% 1/16W x4	R3T7	0790213R	RESISTOR CHIP 2.7K OHM +-5% 1/16W
R3C2	AQ00051R	RESISTOR CHIP 10K OHM +-5% 1/16W x4	R3T8	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3C3	AQ00051R	RESISTOR CHIP 10K OHM +-5% 1/16W x4	R3U1	0790213R	RESISTOR CHIP 2.7K OHM +-5% 1/16W
R3C4	AQ00051R	RESISTOR CHIP 10K OHM +-5% 1/16W x4	R3U2	0790213R	RESISTOR CHIP 2.7K OHM +-5% 1/16W
R3C5	AQ00051R	RESISTOR CHIP 10K OHM +-5% 1/16W x4	R3U3	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R3C6	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R3X0	0790204R	RESISTOR CHIP 560 OHM +-5% 1/16W
R3C7	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R416	0790189R	RESISTOR CHIP 47 OHM +-5% 1/16W
R3C8	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R417	0790189R	RESISTOR CHIP 47 OHM +-5% 1/16W
R3C9	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R421	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3E0	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R422	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3E1	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R423	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3E2	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R424	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3E3	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R429	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3E8	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R430	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3E9	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R431	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
R3F0	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R432	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
R3G5	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R437	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R3L4	0790001R	RESISTOR CHIP 0 OHM +-5% 1/16W	R443	0790225R	RESISTOR CHIP 22K OHM +-5% 1/16W
R3L5	0790001R	RESISTOR CHIP 0 OHM +-5% 1/16W	R446	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3M0	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R448	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3M1	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R470	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
R3M2	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R471	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R3M3	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R473	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R3M4	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R476	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R3M5	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R477	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R3M6	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R478	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R3M7	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R479	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
R3M8	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R491	0790225R	RESISTOR CHIP 22K OHM +-5% 1/16W
R3M9	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R492	0790223R	RESISTOR CHIP 15K OHM +-5% 1/16W
R3N0	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	R493	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W
R3N1	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R494	0790223R	RESISTOR CHIP 15K OHM +-5% 1/16W
R3N2	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R495	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
R3N3	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R496	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
R3N4	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R498	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R3N5	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R499	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
R3N9	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R4A0	0790189R	RESISTOR CHIP 47 OHM +-5% 1/16W
R3P4	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R4A1	0790189R	RESISTOR CHIP 47 OHM +-5% 1/16W
R3P5	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	R4A2	0790189R	RESISTOR CHIP 47 OHM +-5% 1/16W

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R4A3	0790189R	RESISTOR CHIP 47 OHM +5% 1/16W	R757	AQ00501R	RESISTOR x4 CHIP 0 OHM +5% 1/16W
R4A4	0790201R	RESISTOR CHIP 330 OHM +5% 1/16W	R758	AQ00501R	RESISTOR x4 CHIP 0 OHM +5% 1/16W
R4A5	0790201R	RESISTOR CHIP 330 OHM +5% 1/16W	R772	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W
R4A6	0790201R	RESISTOR CHIP 330 OHM +5% 1/16W	R773	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W
R4C1	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	R776	0790217R	RESISTOR CHIP 5.6K OHM +5% 1/16W
R4C2	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	R777	0790217R	RESISTOR CHIP 5.6K OHM +5% 1/16W
R4C3	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	R787	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W
R4C4	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	R792	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W
R4C5	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	 R901	AT03661M	RESISTOR MG 470K OHM +5% 1/2W
R4C6	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RA03	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W
R4C9	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RA04	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W
R4E0	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RA05	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W
R4E3	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RA06	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W
R4E4	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RA07	0790225R	RESISTOR CHIP 22K OHM +5% 1/16W
R4F0	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RA09	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W
R4F1	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RA11	0790225R	RESISTOR CHIP 22K OHM +5% 1/16W
R4F3	0790207R	RESISTOR CHIP 1K OHM +5% 1/16W	RA12	0790225R	RESISTOR CHIP 22K OHM +5% 1/16W
R4F4	0790221R	RESISTOR CHIP 10K OHM +5% 1/16W	RA14	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W
R4F5	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W	RA15	0790203R	RESISTOR CHIP 470 OHM +5% 1/16W
R4F6	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W	RA16	0790203R	RESISTOR CHIP 470 OHM +5% 1/16W
R4F7	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RA17	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W
R4F8	0790198R	RESISTOR CHIP 220 OHM +5% 1/16W	RA23	0790221R	RESISTOR CHIP 10K OHM +5% 1/16W
R4F9	0790198R	RESISTOR CHIP 220 OHM +5% 1/16W	RA25	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W
R601	AQ00752R	RESISTOR CHIP 75 OHM +1% 1/32W	RA26	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W
R602	AQ00752R	RESISTOR CHIP 75 OHM +1% 1/32W	RA46	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W
R603	AQ00752R	RESISTOR CHIP 75 OHM +1% 1/32W	RA47	AQ00802R	RESISTOR CHIP 5.6K OHM +1% 1/32W
R605	0790212R	RESISTOR CHIP 2.2K OHM +5% 1/16W	RA48	AQ00828R	RESISTOR CHIP 56K OHM +1% 1/32W
R606	0790212R	RESISTOR CHIP 2.2K OHM +5% 1/16W	RA49	0790221R	RESISTOR CHIP 10K OHM +5% 1/16W
R609	0790229R	RESISTOR CHIP 47K OHM +5% 1/16W	RA50	0790234R	RESISTOR CHIP 100K OHM +5% 1/16W
R610	0790229R	RESISTOR CHIP 47K OHM +5% 1/16W	RA51	0790221R	RESISTOR CHIP 10K OHM +5% 1/16W
R611	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W	RA52	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W
R612	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W	RA53	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W
R613	0790194R	RESISTOR CHIP 100 OHM +5% 1/16W	RA56	0790225R	RESISTOR CHIP 22K OHM +5% 1/16W
R615	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RA57	AQ00831R	RESISTOR CHIP 68K OHM +1% 1/32W
R616	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RA58	0790234R	RESISTOR CHIP 100K OHM +5% 1/16W
R619	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RA66	AQ00821R	RESISTOR CHIP 30K OHM +1% 1/32W
R620	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE17	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W
R622	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE18	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W
R626	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE23	AQ00808R	RESISTOR CHIP 10K OHM +1% 1/32W
R628	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE24	AQ00808R	RESISTOR CHIP 10K OHM +1% 1/32W
R629	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE25	0790001R	RESISTOR CHIP 0 OHM +5% 1/16W
R633	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE26	0790199R	RESISTOR CHIP 270 OHM +5% 1/16W
R635	0790235R	RESISTOR CHIP 120K OHM +5% 1/16W	RE27	0790199R	RESISTOR CHIP 270 OHM +5% 1/16W
R636	0790235R	RESISTOR CHIP 120K OHM +5% 1/16W	RE30	AQ00517R	RESISTOR x4 CHIP 33 OHM +5% 1/16W
R637	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE31	AQ00517R	RESISTOR x4 CHIP 33 OHM +5% 1/16W
R638	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE32	AQ00517R	RESISTOR x4 CHIP 33 OHM +5% 1/16W
R639	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE33	AQ00517R	RESISTOR x4 CHIP 33 OHM +5% 1/16W
R702	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE34	AQ00517R	RESISTOR x4 CHIP 33 OHM +5% 1/16W
R706	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE35	AQ00517R	RESISTOR x4 CHIP 33 OHM +5% 1/16W
R720	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE36	AQ00517R	RESISTOR x4 CHIP 33 OHM +5% 1/16W
R723	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE37	AQ00517R	RESISTOR x4 CHIP 33 OHM +5% 1/16W
R727	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE38	AQ03297R	RESISTOR CHIP 33 OHM +5% 1/16W
R736	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE39	AQ03297R	RESISTOR CHIP 33 OHM +5% 1/16W
R740	0790171R	RESISTOR CHIP 0 OHM +5% 1/16W	RE40	AQ03297R	RESISTOR CHIP 33 OHM +5% 1/16W
R749	AQ00501R	RESISTOR x4 CHIP 0 OHM +5% 1/16W	RE41	AQ03297R	RESISTOR CHIP 33 OHM +5% 1/16W
R750	AQ00001R	RESISTOR,CHIP 0 OHM 1/16W	RE42	AQ01167R	RESISTOR CHIP 33 OHM +5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
RE43	AQ01167R	RESISTOR CHIP 33 OHM +5% 1/16W	REY7	AQ00221R	RESISTOR CHIP 10K OHM +-1% 1/16W
RE44	AQ00517R	RESISTOR x4 CHIP 33 OHM +5% 1/16W	REZ0	0790051R	RESISTOR CHIP 10K OHM +-5% 1/16W
RE90	0790001R	RESISTOR CHIP 0 OHM +-5% 1/16W	REZ2	AQ00228R	RESISTOR CHIP 20K OHM +-1% 1/16W
REA0	0790001R	RESISTOR CHIP 0 OHM +-5% 1/16W	REZ3	0790001R	RESISTOR CHIP 0 OHM +-5% 1/16W
REA1	AQ00847R	RESISTOR CHIP 300K OHM +-1% 1/32W	REZ4	AQ00501R	RESISTOR x4 CHIP 0 OHM +-5% 1/16W
REA2	AQ00805R	RESISTOR CHIP 7.5K OHM +-1% 1/32W	REZ5	AQ00227R	CHIP RESISTOR 18K OHM +-1% 1/16W
REA3	AQ00847R	RESISTOR CHIP 300K OHM +-1% 1/32W	REZ6	AQ00218R	CHIP RESISTOR 8.2K OHM +-1% 1/16W
REC1	0790001R	RESISTOR CHIP 0 OHM +-5% 1/16W	REZ7	AQ00221R	RESISTOR CHIP 10K OHM +-1% 1/16W
REM2	0790001R	RESISTOR CHIP 0 OHM +-5% 1/16W	RF02	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
REM3	0790001R	RESISTOR CHIP 0 OHM +-5% 1/16W	RF03	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
REN0	AQ00501R	RESISTOR x4 CHIP 0 OHM +-5% 1/16W	RF05	0790217R	RESISTOR CHIP 5.6K OHM +-5% 1/16W
REN1	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH01	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
REN5	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH02	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
REN6	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH05	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W
REP0	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH06	0790235R	RESISTOR CHIP 120K OHM +-5% 1/16W
REP3	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH07	0790187R	RESISTOR CHIP 33 OHM +-5% 1/16W
REP4	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH08	AQ00517R	RESISTOR x4 CHIP 33 OHM +-5% 1/16W
REP7	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH09	AQ00517R	RESISTOR x4 CHIP 33 OHM +-5% 1/16W
REP9	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH10	AQ00517R	RESISTOR x4 CHIP 33 OHM +-5% 1/16W
RER0	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH11	AQ00517R	RESISTOR x4 CHIP 33 OHM +-5% 1/16W
RER2	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH12	AQ00517R	RESISTOR x4 CHIP 33 OHM +-5% 1/16W
RES1	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH13	AQ00517R	RESISTOR x4 CHIP 33 OHM +-5% 1/16W
RES3	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH15	0790216R	RESISTOR CHIP 4.7K OHM +-5% 1/16W
RES5	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH16	0790187R	RESISTOR CHIP 33 OHM +-5% 1/16W
RES6	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH18	0790187R	RESISTOR CHIP 33 OHM +-5% 1/16W
RES8	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH19	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RET0	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH20	0790187R	RESISTOR CHIP 33 OHM +-5% 1/16W
RET2	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH21	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RET4	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH22	0790216R	RESISTOR CHIP 4.7K OHM +-5% 1/16W
RET6	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH23	0790247R	RESISTOR CHIP 1M OHM +-5% 1/16W
RET9	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH24	0790187R	RESISTOR CHIP 33 OHM +-5% 1/16W
REU4	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH26	AQ00517R	RESISTOR x4 CHIP 33 OHM +-5% 1/16W
REU5	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH28	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W
REU6	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH29	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W
REU7	AQ00001R	RESISTOR,CHIP 0 OHM 1/16W	RH30	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W
REU8	AQ00001R	RESISTOR,CHIP 0 OHM 1/16W	RH31	0790187R	RESISTOR CHIP 33 OHM +-5% 1/16W
REU9	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH32	0790187R	RESISTOR CHIP 33 OHM +-5% 1/16W
REW0	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH33	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
REW3	AQ00001R	RESISTOR,CHIP 0 OHM 1/16W	RH34	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
REW4	AQ00001R	RESISTOR,CHIP 0 OHM 1/16W	RH37	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
REW5	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH38	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
REW6	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH39	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
REW7	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH41	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W
REW8	AQ00001R	RESISTOR,CHIP 0 OHM 1/16W	RH42	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W
REW9	AQ00001R	RESISTOR,CHIP 0 OHM 1/16W	RH45	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
REX0	AQ00001R	RESISTOR,CHIP 0 OHM 1/16W	RH46	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
REX1	AQ00001R	RESISTOR,CHIP 0 OHM 1/16W	RH47	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
REX2	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH49	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
REX3	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH50	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
REX4	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH52	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
REY0	0790051R	RESISTOR CHIP 10K OHM +-5% 1/16W	RH53	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
REY2	AQ00228R	RESISTOR CHIP 20K OHM +-1% 1/16W	RH54	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
REY3	0790001R	RESISTOR CHIP 0 OHM +-5% 1/16W	RH55	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
REY4	AQ00501R	RESISTOR x4 CHIP 0 OHM +-5% 1/16W	RH56	0790189R	RESISTOR CHIP 47 OHM +-5% 1/16W
REY5	AQ00215R	RESISTOR CHIP 6.2K OHM +-1% 1/16W	RH57	0790189R	RESISTOR CHIP 47 OHM +-5% 1/16W
REY6	AQ00207R	RESISTOR CHIP 3.3K OHM +-1% 1/16W	RH59	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
RH65	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM04	0790225R	RESISTOR CHIP 22K OHM +-5% 1/16W
RH66	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM05	0790225R	RESISTOR CHIP 22K OHM +-5% 1/16W
RH67	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM06	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RH68	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM07	0790225R	RESISTOR CHIP 22K OHM +-5% 1/16W
RH69	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM08	0790225R	RESISTOR CHIP 22K OHM +-5% 1/16W
RH70	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM09	0790225R	RESISTOR CHIP 22K OHM +-5% 1/16W
RH71	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM11	0790024R	RESISTOR CHIP 100 OHM +-5% 1/16W
RH72	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM12	0790037R	RESISTOR CHIP 1K OHM +-5% 1/16W
RH74	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM16	0790024R	RESISTOR CHIP 100 OHM +-5% 1/16W
RH75	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM17	0790225R	RESISTOR CHIP 22K OHM +-5% 1/16W
RH76	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RM18	0790024R	RESISTOR CHIP 100 OHM +-5% 1/16W
RH77	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W	RM19	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RH78	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W	RM20	0790024R	RESISTOR CHIP 100 OHM +-5% 1/16W
RH81	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W	RM21	0790024R	RESISTOR CHIP 100 OHM +-5% 1/16W
RH82	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W	RM33	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RH83	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RM35	0790206R	RESISTOR CHIP 820 OHM +-5% 1/16W
RH85	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RM41	AQ00524R	RESISTOR x4 CHIP 100 OHM +-5% 1/16W
RH86	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RM42	AQ00524R	RESISTOR x4 CHIP 100 OHM +-5% 1/16W
RH87	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RM43	AQ00524R	RESISTOR x4 CHIP 100 OHM +-5% 1/16W
RH88	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RM44	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RH89	0790189R	RESISTOR CHIP 47 OHM +-5% 1/16W	RM45	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RH90	0790189R	RESISTOR CHIP 47 OHM +-5% 1/16W	RM46	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RH92	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RM48	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RH98	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM49	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RH99	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM50	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RHA0	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM53	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
RHA1	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM54	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
RHA2	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM55	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
RHA3	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RM56	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
RHA4	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RMP1	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RHA5	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RMP2	0790225R	RESISTOR CHIP 22K OHM +-5% 1/16W
RHA7	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RMP3	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RHC3	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RR01	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RHC4	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RR02	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RHC5	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RR03	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RHC6	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RR04	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RHC7	0790203R	RESISTOR CHIP 470 OHM +-5% 1/16W	RR05	0790233R	RESISTOR CHIP 82K OHM +-5% 1/16W
RHC8	0790203R	RESISTOR CHIP 470 OHM +-5% 1/16W	RR06	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RHE0	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W	RR08	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W
RHE1	0790223R	RESISTOR CHIP 15K OHM +-5% 1/16W	RR09	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RHE2	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RR10	0790198R	RESISTOR CHIP 220 OHM +-5% 1/16W
RHE3	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RR11	0790198R	RESISTOR CHIP 220 OHM +-5% 1/16W
RHE9	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RR12	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RHF7	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RR13	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RHF9	0790187R	RESISTOR CHIP 33 OHM +-5% 1/16W	RR14	0790233R	RESISTOR CHIP 82K OHM +-5% 1/16W
RHG0	0790187R	RESISTOR CHIP 33 OHM +-5% 1/16W	RR15	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W
RHG1	0790187R	RESISTOR CHIP 33 OHM +-5% 1/16W	RR16	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RHG4	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RR17	0790198R	RESISTOR CHIP 220 OHM +-5% 1/16W
RL51	0790203R	RESISTOR CHIP 470 OHM +-5% 1/16W	RR18	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RL52	0790208R	RESISTOR CHIP 1.2K OHM +-5% 1/16W	RR19	0790233R	RESISTOR CHIP 82K OHM +-5% 1/16W
RL53	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RR20	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RL54	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RR21	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RL55	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RR22	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RL56	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RR23	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RM02	0790037R	RESISTOR CHIP 1K OHM +-5% 1/16W	RR24	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RM03	0790024R	RESISTOR CHIP 100 OHM +-5% 1/16W	RR25	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W


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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
RR26	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W	RT10	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
RR29	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT11	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
RR30	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT12	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
RR31	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RT13	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
RR41	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT14	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR48	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W	RT15	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR49	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W	RT16	0790214R	RESISTOR CHIP 3.2K OHM +-5% 1/16W
RR50	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT19	AQ00779R	RESISTOR CHIP 820 OHM +-1% 1/16W
RR51	0790203R	RESISTOR CHIP 470 OHM +-5% 1/16W	RT20	AQ00779R	RESISTOR CHIP 820 OHM +-1% 1/16W
RR52	0790203R	RESISTOR CHIP 470 OHM +-5% 1/16W	RT21	0790214R	RESISTOR CHIP 3.2K OHM +-5% 1/16W
RR53	0790203R	RESISTOR CHIP 470 OHM +-5% 1/16W	RT27	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RR54	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT28	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RR55	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT31	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
RR56	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT32	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR57	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT41	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
RR59	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RT46	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
RR61	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RT47	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
RR62	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RT48	0790229R	RESISTOR CHIP 3.2K OHM +-5% 1/16W
RR63	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RT49	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
RR64	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RT50	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR65	AQ00524R	RESISTOR x4 CHIP 100 OHM +-5% 1/16W	RT51	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR66	AQ00524R	RESISTOR x4 CHIP 100 OHM +-5% 1/16W	RT57	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RR69	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RT59	0790214R	RESISTOR CHIP 3.2K OHM +-5% 1/16W
RR70	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RT61	0790203R	RESISTOR CHIP 470 OHM +-5% 1/16W
RR72	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RT62	0790203R	RESISTOR CHIP 470 OHM +-5% 1/16W
RR73	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RT63	0790233R	RESISTOR CHIP 82K OHM +-5% 1/16W
RR74	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W	RT64	0790222R	RESISTOR CHIP 12K OHM +-5% 1/16W
RR76	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RT65	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR81	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RT66	0790209R	RESISTOR CHIP 1.5K OHM +-5% 1/16W
RR82	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RT67	0790196R	RESISTOR CHIP 150 OHM +-5% 1/16W
RR83	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RT68	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RR84	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT69	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR85	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RT70	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR86	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RT71	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RR87	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT73	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
RR88	0790197R	RESISTOR CHIP 180 OHM +-5% 1/16W	RT75	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
RR89	0790197R	RESISTOR CHIP 180 OHM +-5% 1/16W	RT76	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
RR90	0790198R	RESISTOR CHIP 220 OHM +-5% 1/16W	RT77	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR91	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT78	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR92	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RT79	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR93	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT81	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RR94	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT82	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
RR95	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT83	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RR96	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RT86	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RR97	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT89	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
RR98	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT91	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
RR99	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT93	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RT01	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RT94	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RT02	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RT95	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RT03	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RT96	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RT04	0790214R	RESISTOR CHIP 3.2K OHM +-5% 1/16W	RT97	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RT05	0790214R	RESISTOR CHIP 3.2K OHM +-5% 1/16W	RT98	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RT06	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RT99	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RT07	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RW01	0790208R	RESISTOR CHIP 1.2K OHM +-5% 1/16W
RT08	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RW02	0790211R	RESISTOR CHIP 1.8K OHM +-5% 1/16W
RT09	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	RW03	0790214R	RESISTOR CHIP 3.2K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
RW04	0790216R	RESISTOR CHIP 4.7K OHM +-5% 1/16W	RY47	0790208R	RESISTOR CHIP 1.2K OHM +-5% 1/16W
RW05	0790222R	RESISTOR CHIP 12K OHM +-5% 1/16W	RY48	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RW10	0790226R	RESISTOR CHIP 27K OHM +-5% 1/16W	RY49	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W
RW11	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W	RY50	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RW12	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY51	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W
RW20	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	RY54	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RW21	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	RY55	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RW25	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY56	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RW26	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY57	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RW27	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY58	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RY01	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RY59	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RY02	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RY61	0790221R	RESISTOR CHIP 10K OHM +-5% 1/16W
RY03	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	RY62	0790229R	RESISTOR CHIP 47K OHM +-5% 1/16W
RY04	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RY65	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
RY05	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RY66	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W
RY06	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RY67	AQ00421R	RESISTOR CHIP 0 OHM +-5% 1/16W
RY07	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY68	0790233R	RESISTOR CHIP 82K OHM +-5% 1/16W
RY08	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY69	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RY09	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	RY70	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RY10	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	RY71	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RY11	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RY72	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RY12	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RY73	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RY13	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RY74	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RY14	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY75	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RY15	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY76	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RY16	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	RY77	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RY17	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	RY78	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RY18	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RY79	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RY19	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RY85	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RY20	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY86	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RY21	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY87	0790212R	RESISTOR CHIP 2.2K OHM +-5% 1/16W
RY22	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	RY88	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RY23	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	RY89	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W
RY24	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	RY90	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RY25	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY91	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RY26	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	RY92	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RY27	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	RY93	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W
RY28	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	RY98	0790198R	RESISTOR CHIP 220 OHM +-5% 1/16W
RY29	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	 S901	FG00251	POWER SWITCH
RY30	0790171R	RESISTOR CHIP 0 OHM +-5% 1/16W	SPL	GK01591	SPEAKER
RY31	AQ00752R	RESISTOR CHIP 75 OHM +-1% 1/32W	SPR	GK01591	SPEAKER
RY32	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W	SW01	FB00021R	SWITCH TACT SWITCH CHIP
RY33	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W	SW02	FB00021R	SWITCH TACT SWITCH CHIP
RY34	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W	SW03	FB00021R	SWITCH TACT SWITCH CHIP
RY35	0790239R	RESISTOR CHIP 270K OHM +-5% 1/16W	SW04	FB00021R	SWITCH TACT SWITCH CHIP
RY36	0790227R	RESISTOR CHIP 33K OHM +-5% 1/16W	SW05	FB00021R	SWITCH TACT SWITCH CHIP
RY37	0790232R	RESISTOR CHIP 68K OHM +-5% 1/16W	SW06	FB00021R	SWITCH TACT SWITCH CHIP
RY38	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	SW07	FB00021R	SWITCH TACT SWITCH CHIP
RY39	0790208R	RESISTOR CHIP 1.2K OHM +-5% 1/16W	U001	HL02341	REMOTE CONTROL TRANSMITTER CLE-979
RY40	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	U1	HA01841	POWER UNIT (MPF7716)
RY41	0790234R	RESISTOR CHIP 100K OHM +-5% 1/16W	UT01	HC00665	TUNER (ENG39A27GF)
RY42	0790207R	RESISTOR CHIP 1K OHM +-5% 1/16W	X001	BL01454R	CRYSTAL OSCILLATOR 16.0MHZ
RY43	0790243R	RESISTOR CHIP 470K OHM +-5% 1/16W	X003	BK00191R	CERAMIC FILTER CHIP
RY44	0790227R	RESISTOR CHIP 33K OHM +-5% 1/16W	X3X0	BL01671R	CRYSTAL OSCILLATOR 16.6608MHZ
RY45	0790232R	RESISTOR CHIP 68K OHM +-5% 1/16W	X601	BK00264R	NOISE FILTER CHIP 22PF
RY46	0790194R	RESISTOR CHIP 100 OHM +-5% 1/16W	X602	BK00264R	NOISE FILTER CHIP 22PF

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
X603	BK00264R	NOISE FILTER CHIP 22PF			
X604	BK00193R	CERAMIC FILTER 100MHZ			
X605	BK00193R	CERAMIC FILTER 100MHZ			
X606	BK00193R	CERAMIC FILTER 100MHZ			
X607	BK00193R	CERAMIC FILTER 100MHZ			
XA01	BK00193R	CERAMIC FILTER 100MHZ			
XA02	BK00193R	CERAMIC FILTER 100MHZ			
XE90	BK10324R	CHIP SOLID EMIFIL 1000000PF			
XEX0	BK10324R	CHIP SOLID EMIFIL 1000000PF			
XEY0	BK10324R	CHIP SOLID EMIFIL 1000000PF			
XEZ0	BK10324R	CHIP SOLID EMIFIL 1000000PF			
XH01	BL01502R	CRYSTAL OSCILLATOR 27.0MHZ			
XM01	BK00264R	NOISE FILTER CHIP 22PF			
XM02	BK00264R	NOISE FILTER CHIP 22PF			
XM03	BK00264R	NOISE FILTER CHIP 22PF			
XM04	BK00264R	NOISE FILTER CHIP 22PF			
XM09	BE00391R	SMD LC FILTER, CHIP (4 R)			
XM10	BE00391R	SMD LC FILTER, CHIP (4 R)			
XM11	BK00191R	CERAMIC FILTER CHIP			
XM12	BK00191R	CERAMIC FILTER CHIP			
XMP1	BE00412R	LC FILTER CHIP			
XMP2	BE00391R	SMD LC FILTER, CHIP (4 R)			
XT01	BJ00691	HIGH PASS FILTER 4.5MHZ TCV2			
XT02	BL00171R	CRYSTAL OSCILLATOR 18.432MHZ			
XT08	BK10324R	CHIP SOLID EMIFIL 1000000PF			
XT09	BK10324R	CHIP SOLID EMIFIL 1000000PF			
XT10	BK10324R	CHIP SOLID EMIFIL 1000000PF			
XT11	BK00199R	EMIFIL CHIP 240PF +-20% 20MHZ			
XT12	BK00199R	EMIFIL CHIP 240PF +-20% 20MHZ			
XT15	BK10324R	CHIP SOLID EMIFIL 1000000PF			
XT17	BK10324R	CHIP SOLID EMIFIL 1000000PF			
XT18	BK10324R	CHIP SOLID EMIFIL 1000000PF			
XY01	BK00193R	CERAMIC FILTER 100MHZ			
XY02	BK00193R	CERAMIC FILTER 100MHZ			
XY03	BK00193R	CERAMIC FILTER 100MHZ			
XY04	BK00193R	CERAMIC FILTER 100MHZ			
XY05	BK00193R	CERAMIC FILTER 100MHZ			
XY06	BK00193R	CERAMIC FILTER 100MHZ			
XY07	BK00191R	CERAMIC FILTER CHIP			
XY08	BK00191R	CERAMIC FILTER CHIP			
XY09	BK00191R	CERAMIC FILTER CHIP			
XY11	BK00191R	CERAMIC FILTER CHIP			
XY12	BK00191R	CERAMIC FILTER CHIP			
XY13	BK00191R	CERAMIC FILTER CHIP			
XY14	BK00191R	CERAMIC FILTER CHIP			
XY15	BK00191R	CERAMIC FILTER CHIP			
XY16	BK00191R	CERAMIC FILTER CHIP			

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